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SECTION 1. INTRODUCTION

1. INTRODUCTION

On February 9, 1992, the Illinois Environmental Protection
Agency's (IEPA) Site Assessment Unit(SAU) was tasked by the
United States Environmental Protection Agency (U.S. EPA) to
conduct a Comprehensive Environmental Response, Compensation
and Liability Act (CERCLA) Integrated Site Assessment
inspection of the Grieves Woolen Mill site in Lacon, Illinois.

The U.S. EPA requested an Integrated Assessment for the Grieves Woolen Mill site after receiving a citizen complaint to their Region 5 Office. The complaint was over the usage of metals (Chromium, Antimony and Tin), in the various dyes used to color the wool and their potential health effects. On July 12, 1995, the site was added to the Comprehensive Environmental Response, Compensation and Liability Act Information System (CERCLIS) with the number ILO 001091990. There were no previous CERCLA activities at this site.

The purpose of the Integrated Assessment has been developed from USEPA directive and guidance information which outlines Site Assessment program strategies. The information states:

The Integrated Assessment will be conducted to: 1) collect data which would satisfy both site assessment and remedial program activities. This would incorporate hazardous waste, surface water, air, and groundwater concerns. 2). The objectives of the assessment are to determine whether time or non time critical removals are warranted and to determine whether the site is National

Priorities List (NPL) caliber. If the determination is made that the site is NPL caliber, additional data will likely be needed to complete the assessment. A sampling plan to accommodate removal and site assessment needs, as well as initial remedial needs should be developed. 3) Determination of site sampling needs will be accomplished with an understanding to assure adequate data for the removal assessment and the preparation of the Hazard Ranking System (HRS) score as well as the need for possible initial sampling for the remedial investigation. Based on the preliminary HRS score and removal program information, the site will then either be designated as No Further Action (NFA), or carried forward as an NPL listing candidate. Sites that are designated NFA or deferred to other statues are not candidates for an Integrated Assessment. 4) Upon completion of the data gathering, there will be a determination of whether the site should be forwarded within the Superfund process, either through the remedial or removal programs.

The initial assessment of a site as it enters the Superfund program within Region V will be conducted by either a Regional On-Scene Coordinator (OSC) and a Site Assessment Manager (SAM) or by State personnel. An OSC and a SAM will be assigned for all new sites entering the Regional Superfund program. If an emergency is found to occur, USEPA or state emergency removal staff will be immediately contacted for action. If the site needs further Superfund activities, a Site Assessment Team (SAT), comprised of the State, the SAM, the Regional Project Manager (RPM), and an OSC will be formed. As necessary, additional data can be generated for the SAT to make a recommendation to the Regional Decision Team (RDT) for further possible action.

The Integrated Assessment will address all the data requirements of the revised Hazardous Ranking System (HRS)

using field screening and National Priority List (NPL) level Data Quality Objectives (DQO's) prior to data collection. It will also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for NPL listing and that have not been deferred to another authority will receive an Integrated Assessment.

The Region 5 office of the U.S. EPA has requested the IEPA to identify sites during the Integrated Assessment that may require a CERCLA removal action to remediate an immediate human and or environmental threat. Before the initiation of field activities a Removal Integrated Site Evaluation (RISE) form pertaining to site specific operations and waste characteristics was completed and forwarded to Region 5 offices.

Based on initial findings and conversations with Region 5 personnel, it was determined that the site does not pose enough of an immediate threat to human health or the environment to warrant a response action. Although no immediate removal action is presently warranted, further investigation may provide additional information. If additional information indicates a threat to human health or the environment, the Region 5 CERCLA

Removal Program will be notified for a reassessment of the site.

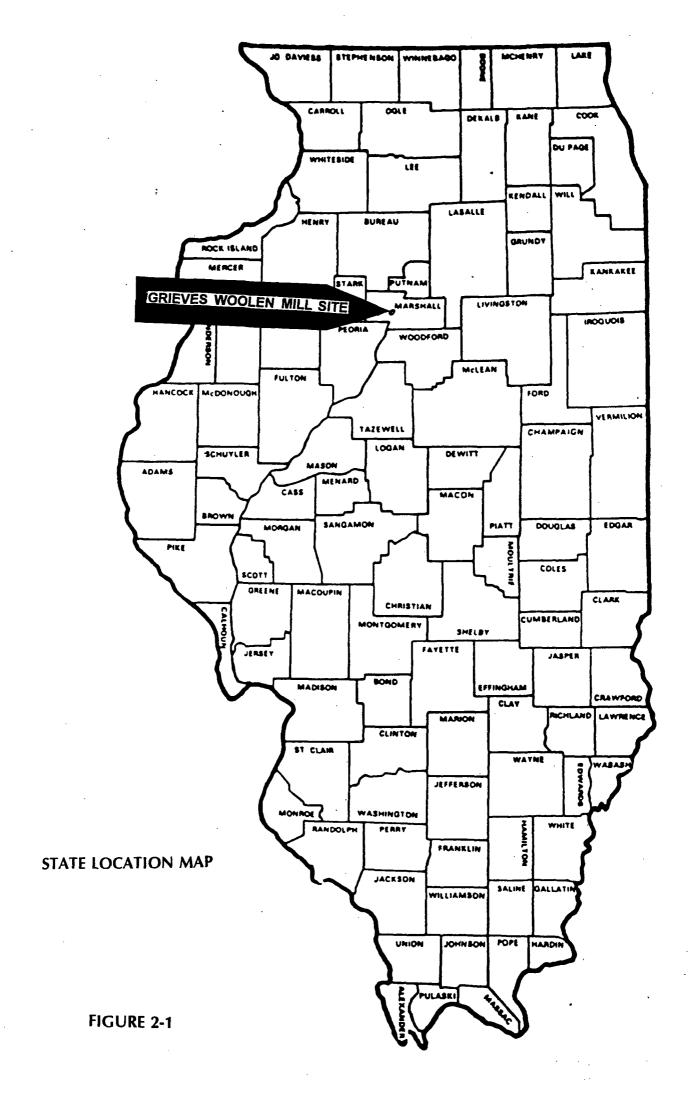
SECTION 2. SITE BACKGROUND

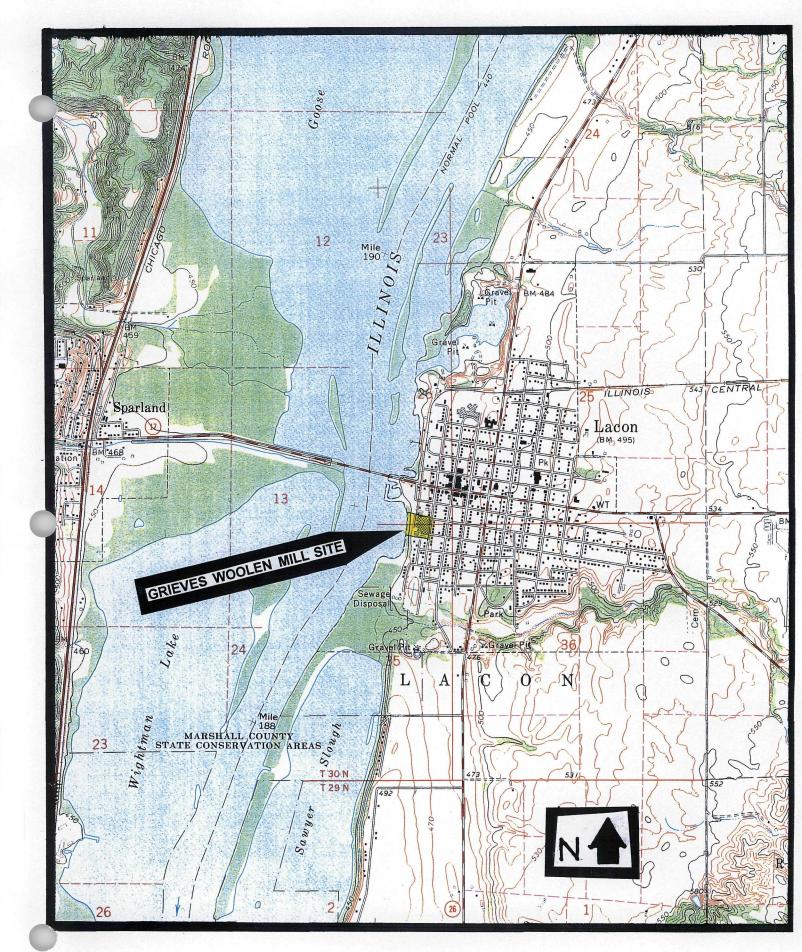
2.1 INTRODUCTION

This section contains information obtained over the course of the formal CERCLA Integrated Assessment and previous Illinois Environmental Protection Agency activities involving this site. Specific activities included an internal file search, interviews with current and former owners and field work including reconnaissance and sampling events.

2.2 SITE DESCRIPTION

Grieves Woolen Mill is located in Lacon, IL in the northeast 1/4 of Section 35, Township 30 North, Range 3 West in Marshall County (figures 2-1 & 2-2). The Grieves Woolen Mill is an inactive facility that covers an area of approximately three acres. The mill is bordered on the northwest by a marina and on the north by small shops and a VFW restaurant. Main Street, running north/south, marks the east side property line and separates the woolen mill property from a residential neighborhood. There is an open field and residences to the south, and the Illinois River marks the west edge of the property.





SITE LOCATION MAP

The topography of the site and surrounding area is moderately sloping to the west and southwest towards the river. Sawyer Slough and its associated wetlands originate approximately one tenth of a mile down river. A flood plain along the Illinois River varies in width from around 50 feet in the south to approximately 100 feet in the north. The flood plain ends with a bluff rising approximately 15 to 20 feet up to the west edge of Water Street (figure 2-2).

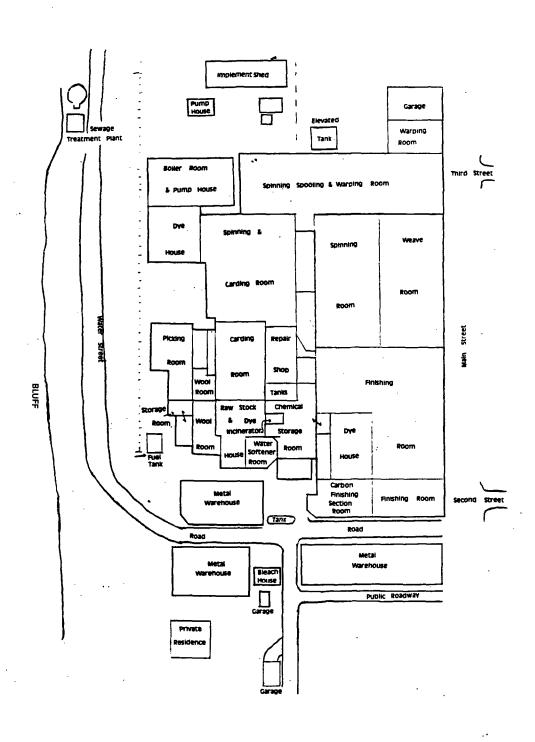
The mill had several buildings associated with its operation.

Many of the structures have been destroyed by nature or have been demolished by the previous owners for safety reasons. Most of the site is covered with building debris from these structures.

The primary sources of contamination are from the materials used in the making of the dyes. Metals such as Chromium, Tin and Antimony were commonly used for coloring the dyes. Other concerns are from the potential discharge of transformer oils and exposed asbestos during the demolition of the buildings. Discolored soils indicate potential areas where releases may have occurred (figure 2-3b).

2.3 SITE HISTORY

Prior to the Woolen Mill, the property was undeveloped. Grieves Woolen Mill has been in operation from approximately 1860 until



ORIGINAL SITE LAYOUT MAP

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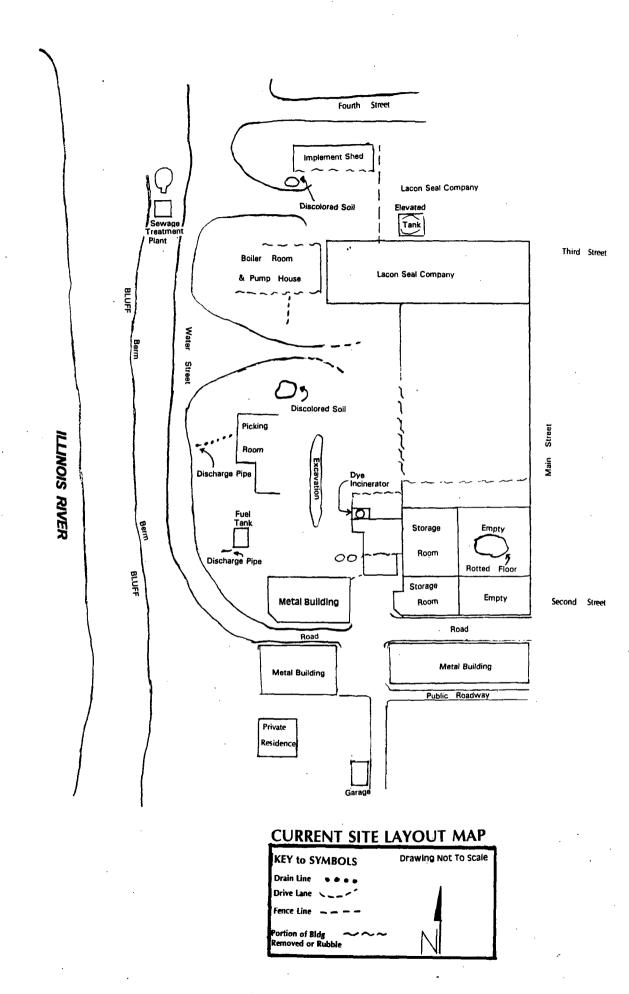


FIGURE 2-3b

the late 1960's. It was originally known as the Lacon Woolen Manufacturing Company. The name was changed sometime prior to 1899 to John Grieves and Sons Woolen Mill. The Woolen mill took raw wool stock then cleaned, dyed, spun and wove the wool into felts and other finished products. The company made their own dyes which may have contained Tin, Antimony and Chromium, among other substances. Sulfuric acid was also utilized, and a 1000 gallon above ground tank of the acid had allegedly leaked its contents into the soil in the later years of operation. The property changed ownership in the late 1960's and continued to operate for approximately one year before finally shutting down.

After the mill shut down most of the property was purchased by the Jolliff family. They utilized some of the buildings for a farm implement dealership. The northern most portion of the property, including part of the original structure was sold to the Lacon Seal Company and they are still in operation making parts for diesel engines. This portion originally contained offices and was unlikely to have contributed to the contamination of the site.

The property owned by the Jolliff Family was given to the City of Lacon on November 1, 1994 in exchange for water and sewer lines to an industrial site. Direct access to the property is only restricted in the front along Main Street. However, there

is a high police visibility to keep trespassers off the site.

The City of Lacon hopes to develop this property into condominiums, shops and to expand the marina to the northwest.

2.4 IEPA INVOLVEMENT

As a result of a citizen's complaint, an IEPA Field Operations Section (FOS) - Peoria Inspector visited the site on September 22,1994. No environmental violations or threats were identified, though no samples were taken. After the field investigation, the complainant was not satisfied and contacted the USEPA Region V with the same concerns. On February 9, 1995 the USEPA tasked the IEPA Site Assessment Unit to conduct an Integrated Assessment (IA) for the site.

2.5 <u>APPLICABILITY OF OTHER STATUTES</u>

Given the years of the mill's operation, and the fact that many of the existing state and federal environmental regulations did not come into law until the late 1970's and early 1980's, it is unlikely that this facility was subject to the Resource Conservation and Recovery Act (RCRA), the Federal Insecticide, Fungicide and Rodent Act (FIFRA), the Atomic Energy Act (AEA) or the Uranium Mill Tailing Radiation Control Act (UMTRCA), and there are no previous violations identified with the property. A sewage treatment facility was built on site in the early 1960's to comply with discharge regulations, but the mill closed before the treatment facility was ever utilized.

SECTION 3. INTEGRATED ASSESSMENT ACTIVITIES

3.1 INTRODUCTION

Information within this section outlines procedures utilized and observations made during the CERCLA Integrated Assessment Inspection conducted at the Grieves Woolen Mill site.

Individual subsections address the site related interviews, reconnaissance inspections, field sampling procedures, analytical results and the key samples summary. The Integrated Assessment was conducted in accordance with the U.S. EPA approved site inspection work plan which was developed and submitted to the USEPA Region 5 Offices prior to the initiation of field activities. The USEPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for Grieve's Woolen Mill is provided in Appendix B of this report.

3.2 SITE RELATED INTERVIEWS

After receiving an anonymous telephone complaint in January 1994, USEPA Region V asked the IEPA Site Assessment Unit (SAU) to investigate Grieves Woolen Mill. On February 9, 1995 the IEPA contacted the complainant to identify the nature of the concerns. The complainant indicated that the City of Lacon had just received the Grieves Woolen Mill property and was attempting to obtain federal funding to clean up the site. The city's ultimate goal is to redevelop the property. The concern was about the past usage of metals (Chromium and others) in the dyes, potential transformer oil spills and potential asbestos

on the site. The complainant stated that: children played on the site over the years and it is still a threat to their safety and dyeing room workers had frequent health problems including burns, blisters and open sores that would not heal. Also, the color of the Illinois river indicated the color of dyes in use on any given day. Additional fears concerned future public exposure if the site was developed.

The complainant stated that the City of Lacon hired outside legal counsel to advise them on the property. The counsel allegedly advised the City not to accept the land without taking environmental samples. The City of Lacon hired an environmental consultant to conduct a Phase I investigation. The consultant concluded that there was no environmental threat, so the City of Lacon acquired the property.

The IEPA SAU conducted a telephone interview on February 9, 1995 with Mayor Frank Dalrymple from the City of Lacon. Mr. Dalrymple stated that the City hired an environmental engineer (Midwest Environmental Consulting & Remediation Services, Inc.) to conduct a Phase I investigation. The results indicated no apparent threat of contamination on the site. The Mayor also stated that he had conversations with the former dye master who had mixed and prepared the dyes during the operation of the mill. The dye master had indicated to the Mayor that the metal levels would not pose a toxic threat in the sediment or soil

due to ionic absorption and that all the metals would be carried away by the river.

The Mayor recommended contacting the City of Lacon's Attorney, Brian Meierkord for a phone interview. The conversation with Mr. Meierkord took place on February 9, 1995. Mr. Meierkord stated that he had met with IEPA FOS - Peoria personnel on two occasions. The FOS inspector did not identify any environmental threats or hazards, though no environmental samples were taken. The Environmental Engineer's Phase I report indicated the same conclusions. That is why the City of Lacon decided to accept the property. Mr. Meierkord agreed to send a copy of the report along with a site survey plat map to this author.

It was after the City of Lacon decided to accept the property that the complainant contacted the USEPA. The complainant believed that without sampling, there could still be a health threat. USEPA Region 5 then tasked the IEPA to conduct an Integrated Assessment.

3.3 SITE RECONNAISSANCE

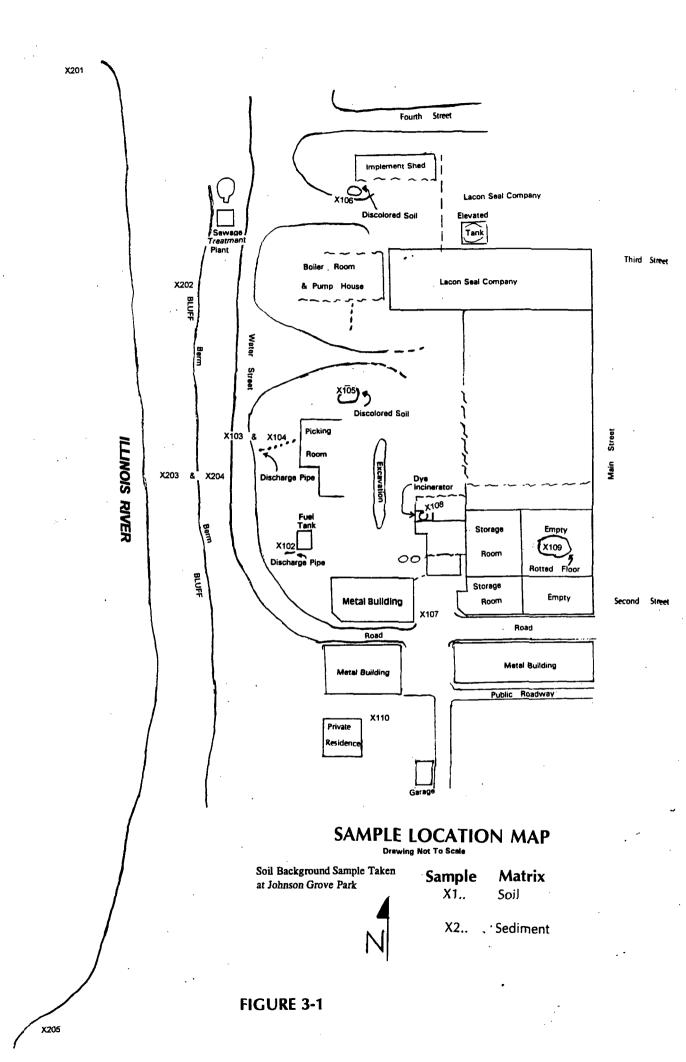
On March 2, 1995, Ted Prescott and Sheri Adams of the IEPA's Site Assessment Unit visited the Grieves Woolen Mill site. The front (east) of the main building along Main Street is fenced and mostly covered with blue tarps. The northern portion is now Lacon Seal Company and the southern portion is utilized for

storage of farm implement equipment. Only the front wall of the center portion remains.

The reconnaissance team proceeded towards the back (west) of the site. Three metal buildings are still standing on the south edge of the site. These buildings contained farm machinery.

Access to the back of the site was gained by walking west down a narrow road between two of the metal buildings towards the river. There was no access restrictions along this route. Much of the back side of the main building along with most of the remaining structures have been partially or totally demolished. The Jolliffs removed many of the structures because of unsafe conditions. Rubble, shallow excavations and building debris now cover the site. Within the area of the main building structure, a round approximately four foot diameter cylinder, later identified as the dye incinerator was observed. The top of this cylinder was covered with a maroon cinder like material.

An earth and building debris berm has been created along the top of the bluff leading down to the Illinois River and just west of the unimproved road (Water Street). The bluff drops down approximately fifteen to twenty feet onto the river's floodplain. The flood plain width from the river bank to the bluff varies between fifty feet in the south to one hundred feet in the north. Both the flood plain and bluff were covered with debris including; drums, water heaters, tires, power plant



cinders and ash, building debris and scrap metal. Two drums with a tar like substance inside were observed. Several groundwater seeps were identified on the floodplain which flowed into the river.

Two areas of discolored soil were observed on the upper north portion of the site. The first had a maroon color and coincided where transformer oils were allegedly burned near the old power plant. The second was yellow in color and located west of the picking room. A broken twelve inch tile line was observed alongside a large fuel tank in the southeast. The tile line may have been the drain pipe from the dye room. The fuel tank was uncovered and empty.

A second reconnaissance occurred on March 20, 1995. Ted

Prescott and Michelle Tebrugge from the IEPA and Sonia Vega

from the USEPA met with the former owner Mr. Jolliff, Mayor

Dalrymple and Brian Meierkord from the City of Lacon and others

from the Lacon area. Observations included the remains of an

approximately six foot wide cistern that was filled in with

building debris and a large chimney on the south side of the

plant which had been demolished.

3.4 SOIL/SEDIMENT SAMPLING

The IEPA Site Assessment Unit collected fifteen soil/sediment samples in April 25 and 26, 1995 to determine if Target

Grieve's Woolen Mill ILO# 001091990

Compound List (TCL) contaminants were present and their potential impact through the surface water pathway and the soil exposure pathway. Figure 3-1 is a drawing identifying the location of the samples. The samples were collected with stainless steel trowels or mud augers that were decontaminated prior to the sampling event at the IEPA warehouse. The soil/sediment was transferred directly from the trowel/auger into the sample jars provided by the IEPA's Contract Laboratory Program. The volatile samples were collected first.

Sample X101 was taken at the northwest side of Johnson grove

Park as a representative background sample. The sample was

collected with a stainless steel trowel from a depth of zero to

six inches. The sample appearance was a brown sandy loam.

Sample X102 was collected three feet west of the fuel tank. The sample was taken in an area where a drain tile and the fuel tank may have had releases. The sample appearance was brownish red with pebbles and was collected from zero to six inches in depth with a stainless steel trowel.

Sample X103 and X104 are duplicate samples collected 60 feet west of the Picking room. There was a three foot deep excavation where a drain line was located. The sample was collected from zero to six inches in depth at the bottom of the hole with a stainless steel trowel. Soil that was obtained for

X103 and X104 was placed in a stainless steel pan, mixed thoroughly, then placed alternately into jars for both X103 and X104. The soil was a brown silty clay.

Sample X105 was collected 13 feet north of the Picking room wall. The area around this sample point was discolored with a yellowish tint. The soil was reddish brown sand at the surface and a darker red to black around six inches. The sample was collected from zero to six inches in depth with a stainless steel trowel.

Sample X106 was collected 39 feet south of the north property line in an area of reddish discolored soil. The soil was a reddish purple color with a fine yellow powder like material. The sample was collected from zero to six inches in depth with a stainless steel trowel.

Sample X107 was collected from the sulfuric acid tank location. The soil was a black clay loam. The sample was collected from zero to six inches in depth with a stainless steel trowel.

Sample X108 was collected from the top of the dye incinerator. The material was a black maroonish gritty sand and was wet and cohesive. The sample was collected from zero to six inches in depth with a stainless steel trowel.

Grieve's Woolen Mill ILO# 001091990

Sample X109 was collected from under the rotted floor of the finishing room in the main building. The soil was a dark loam with sand around eight inches. The sample was collected with a stainless steel split spoon auger from zero to eight inches in depth.

Sample X110 was collected from the residential yard immediately south of the site. The soil was a dark brown sandy/pebbly loam. The sample was collected from zero to four inches in depth with a stainless steel trowel.

Sample X201 was a background sediment sample collected at the turn of the river immediately south of the marina. All sediment samples were compared to this sample. The sediment was a dark grey sandy/gritty silt with gravel. The sample was collected from zero to sixteen inches and in two feet of water with a stainless steel split spoon auger.

Sample X202 was collected along the bluff line 60 feet west of the center of Water Street and 46.5 feet north of the Picking room wall. The sediment was a dark grey sandy/gritty silt and was collected from six to eight inches in two feet of water with a stainless steel split spoon auger.

Samples X203 and X204 are duplicate sediment samples collected along the bluff directly west of the western most metal

building. The sediment was a dark silt with rocks and was collected from zero to twelve inches in two feet of water. The sample was collected from zero to sixteen inches and in two feet of water with a stainless steel split spoon auger. Sediment that was obtained for X203 and X204 was placed in a stainless steel pan, mixed thoroughly, then placed alternately into jars for both X203 and X204.

Sample X205 was collected due west of the sewage treatment facility approximately two tenths of a mile down stream. The sample was collected at the north edge of the Marshall County State Conservation Area in the flooded wetland area. The sample was a brown silty clay and was collected from zero to sixteen inches and in two feet of water with a stainless steel split spoon auger.

3.5 DECONTAMINATION PROCEDURES

Standard IEPA decontamination procedures were followed prior to collection of all samples. All sampling equipment had been decontaminated at the IEPA's decontamination facility prior to transport to the site. Decontamination procedures included the cleaning of all equipment with a liquid Alconox solution, rinsing with hot tap water and then a final rinse with distilled water. All equipment was either dried with paper towels or allowed to air dry, then wrapped and stored in heavy duty aluminum foil.

3.6 ANALYTICAL RESULTS

This section provides a summary of the analytical results of the samples collected during the Integrated Assessment conducted at the Grieves Woolen Mill site. The fifteen samples were collected to determine if any contaminants identified in the Target Compound List (Appendix C) were present at the site or in the surface water pathway. Analysis of inorganic contaminants was completed by the Illinois EPA Champaign Laboratory and organic contaminants were analyzed by the Illinois EPA Springfield Laboratory. Appendix E contains the complete validated laboratory package and a table summarizing the results. See Figure 3-1 and Tables 3-1 & 3-2 for specific sampling locations, descriptions and results.

3.7 <u>SOIL/SEDIMENT SAMPLE RESULTS</u>

A total of eight surface soil samples were taken on the Grieve's Woolen Mill Site. Two surface soil samples were taken off site. The first, X101 was taken at Johnson Grove Park for a soil background and the other was taken from a nearby residential lawn. Figure 3-1 and Tables 3-1 & 3-2 will provide information concerning specific contaminants found at each sample.

Soil sample X102 was collected three feet west and five feet south of the large fuel tank structure at the southwest portion of the site. The twelve inch drain pipe mentioned in the

						SAMPI FKEY	# Matrix						
JUSTIFICATION	Background soil sample	Possible Dye runoff drain pipe	possible drain from Picking Room Duplicate samples	Characterize discolored soil zone	Characterize discolored soil zone	Possible H2604 acid spill & discolored soil	Characterize Dye Incinerator materials	Dye House floor is rotted through Identify if contamination migrated	Nearest residence Immediately south of site	Illinois River sediment background	Identify migration to Illinois River On river flood plain	Identify migration to Illinois River Possible drain path of dye wastestream	Collected at start of Marshall Co. State Conservation Area. 3miles down river
LOCATION	Johnson Grove Park 44'N of swing pole & 53' W of road at top of hill on NW side of park	3'W of SW edge of Fuel tank	60' West of NW corner of picking Rm along bank - in 3' dia hole	72'E of center of Water St. 13' N of Picking RM N wall south of PWR plant	39'S of North fence line 62.5' E of Water St.	10.5' E of East side of West metal Bldg 8' N of South side of West Bldg	Top of Dye Incinerator	31'E of W Dye House wall, 36' N of S wall of the Dye House - Finishing Room	413 S. Riverview Ct 67' N of NE comer of House 15' E of NE comer of House	Marina Pkrig lot - SE comer 39' E & 60' S of gravel	60'W of center of Water St. & 46.5' N of north wall of Picking room	Illinois R. floodplain West of Northern metal bidg	At Sewage Treatment plant 300' from River in wetland
APPEARANCE	Brown sandy loam	Brownish red sand w/ pebbles	brown silty clay loam	Reddish brown sand on surface darker red and black lower	Reddish purple w/ yellow fine powder like material	Black clay loam w/ pebbles	Black/maroon gritty-sandy wet & cohesive texture	Dark loem w/ dark sand lower	Dark brown sandy/pebbley loarn	Dark grey sandy/gritty silt w/ gravel	Dark grey silty/gritty sand	Dark silt w/ rocks	Brown silty clay
рертн	. 6	.8 .0	.90	0" - 6" in 2ft deep hole	9 - 0	.90	0" - 4" top dye incin.	8 0	0° - 4" 1" under sod	0" - 16" 2' under water	6" - 8" 2' under water	0" - 12" 2' under water	0" - 18" 2' under water
SAMPLE	X101	X102	X103 & X104	X105	X108	X107	X108	X109	X 0	X201	X202	X203 & X204	X205

SOIL / SEDIMENT DESCRIPTIONS

TABLE 3-2

SAMPLING POINT	X 101	X 102	× 103	× 101 × 104	X 105	X 106	_	X 108 X	X 108	X 110		X 202	× 203	× 204	x zós
PARAMETER	2	2			20.00					200	20.00	200	2		
SEMIVOLATILES PPM															
Fluoranthene	7 00:00	1600.00	1800.00	1600.00			1800.00	1900,00		520.00	160.00 J	1600.00	2100.00	1900.00	
Pyrene	400.00 U	1500.00	1300.00	1000.00			1200.00	1700.00		_	130.00	1200.00	2100.00	1500.00	
Benzo(a)anthracene	400.00 U	870.00	1000.00	980.00			1100.00	1200.00		-	110.00	1100.00	1700.00	1400.00	
Chrysene	400.00	1200.00	1300.00	1100.00			1200.00	1600.00		-	120.00	1100.00	1900.00	1400.00	
Benzo(b)fluoranthene	400.00 U	900.00	1200.00	1300.00			940.00	1200.00			480.00 UJ		940.00	750.00	
Benzo (k) fluoranthane	00.00	1300.00	1400.00	1500.00			1300.00	1200.00		_	480.00 ∪		920.00 1	960.00 J	
Benzo(a)pyrene Benzo(a,h.))perviene	00.004	1200.00	930:00 580:00	1300.00 540.00			990.00	00.00		_	110.00 U		760.00	00.00	
PESTICIDES PPM															
Aldrin	2.10 U	17.00 DJ	23.00 D	12.00 DJ			20.00				D 00:052	38000.DC	150.00 DJ	39.00 DO	
Heptachlor epoxide	0.32 JP	2.60 DJ	5.10 DJ	3.20 0							250.00 U				
Dieldrin	4.00 JPU	100.00 PD	390.00 D	410.00 DC	38.00	31.00 P	720.00 DC	120.00 JPD	62.00 D		720.00 C	49000.00 DC	1900.00 DC	1500.00 DC	2.20 JP
4,4'-DDE	⊅ 87	_	40.00 U					1200.00 DC		23.00 P	480.00 U				
Endrin		55.00 PD	31.00	37.00 DJ		8 9.00	81.00 DJ		7.60 0	30.00	S4.00 DZ		67.00 DJ	32.00 DJ	
4'4DDD	0.77 JP	6.80 JPD		16.00 DJ				110.00 JPD							
4,4'-DDT	-38. -2	_	27.00 DJ	27.00 JPD				3700.00 DC		48.00	480.00 U		17.00 JPD		
alpha-Chlorodane	2.10 U	_												28 88 88	
garmma-Chlorodane	5.5 5.5 5.5	- C	8.50 JPD	9.50 JPD		90		•			20.00		32.00 DJ	33.00 D.	
Arocior-1280	- 10.00 - 10.00	170.00 JPD		230.00 D		130.00					4900.00				
INORGANICS FPM				•		٠									
Aluminum	3910.00		ě					w 12	•		10500.00				
Antimony	⊃ 8.8					36.80		44		12.10 B	8.5 8.8 8.8				
Beryllium	7.0	6.30				1.10	1,40	5.50		2.40	8.2	3.80			
Cadmlum		9.40				8.		9.00		25.30	3.00		2.40	2.20	
Chromium		107.00	31.50	30.90		54.70	9 . 6	8 9.49			20.00	1070.00	239.00	294.00	
Copper	8 9 6 8	79.60	0000			192.00	90	8		300	58.10		8	57.8 20.8	
Magnesium	727.00 19	14100.00		19200.00	32.00	8	31200.00	38.00		16300.00	2890.00		27600.00	14700.00	10800.00
Mercury	0.03	0.40		88.0		06:0	0.17	0.13	0.16	0.14	0.0	0.11 B	8	0.23	
Nickel	5.40 B	30.90	15.10			114.00		24.00		23.30	49.00	24.60		19.50	
Zinc	62.40	550.00	233.00	227.00		260.00	283.00	979.00		2950.00	365.00		369.00	416.00	

SITE NAME: GRIEVES WOOLEN MILL ILO# 001091980

KEY SAMPLE SUMMARY

reconnaissance ended at this sample location. The sample contained eight semivolatiles, six pesticides and eleven inorganic contaminants (including Chromium) above background concentrations. Seven of the semivolatiles and three of the pesticides met or exceeded the Removal Action Level (RAL) benchmarks and or the Superfund Chemical Data Matrix (SCDMs) reference levels.

Soil Samples X103 and X104 were duplicate samples collected at the bottom of a three foot diameter, approximately two foot deep hole sixty feet west of the northwest corner of the Picking Room along the berm, where an underground pipe had recently been removed. Eight semivolatiles, nine pesticides and eight inorganic contaminants (including Chromium) were found above background. Seven of the semivolatiles and four of the pesticides met or exceeded the RALs or the SCDMs benchmarks.

Soil sample X105 was collected 72 feet east of the center of Water Street and 13 feet north of the north wall of the Picking room in the gap between the Dye house and the Picking room.

This was a discolored soil area. The pesticide Dieldrin and Lead where found above background. Neither contaminant met or exceeded the RALs or SCDMs benchmarks.

Soil sample X106 was collected 39 feet south of the north fence line and 62.5 feet east of Water Street in a discolored soil

area. Flouranthene, Pyrene, Dieldrin, Endrin, Aroclor 1260 and ten inorganic contaminants (including Chromium) were found above background levels. Only Dieldrin and Aroclor 1260 met or exceeded the RALs or SCDMs benchmarks.

Soil sample X107 was collected 10.5 feet east of the east wall and eight feet north of the south wall of the western metal building. This sample corresponds with the location of a sulfuric acid tank that allegedly spilled its contents over time into the soil. This is also a discolored soil area. Seven semivolatiles, three pesticides and eight inorganic contaminants (including Chromium) were found above background levels. Six semivolatiles and two pesticides met or exceeded the RALs or SCDMs benchmarks.

Soil sample X108 was collected on top of the remains of the Dye Incinerator. Seven semivolatiles, five pesticides and ten inorganic contaminants (including Chromium) were found above background levels. Six of the semivolatiles and four pesticides met or exceeded the RALs or SCDMs benchmarks.

Soil sample X109 was collected 31 feet east of the west wall and 36 feet north of the south wall of the dye house / finishing room. The floor in the room is rotted through exposing the soil beneath it. Two pesticides and Mercury were found above background levels and none of them met or exceeded

the RALs or SCDMs benchmarks.

Soil sample X110 was collected on the northeast lawn of a private residence immediately south of the mill property. Flouranthene and Pyrene along with 4,4-DDE, Endrin, 4,4-DDT and eleven inorganics were found above background. Flouranthene and Pyrene met or exceeded the RALs or SCDMs benchmarks.

Background sediment sample X201 was collected 39 feet east and 60 feet south of the southeast edge of the gravel parking lot of the marina, just north of the site. Dieldrin was found to exceed the RALs or SCDMs benchmarks.

Sediment sample X202 was collected on the flooded over floodplain in six to eight inches of sediment, approximately two feet under the water surface. The sample location was 60 feet west of the center of water Street and 46.5 feet north of the north wall of the picking room. Four semivolatiles, two pesticides and six inorganic contaminants (including Chromium) were found above background. All the semivolatiles, pesticides and Chromium met or exceeded the RALs or SCDMs benchmarks. Dieldrin was found to be more than fifty times greater than the background level.

Sediment samples X203 and X204 were duplicate samples collected from the flooded over floodplain in zero to twelve inches of

sediment, approximately two feet under the water surface. The sample location was due west of the northwestern metal building at the bottom of the bluff. Seven semivolatiles, six pesticides and nine inorganic contaminants (including Chromium) were found above background levels. Six of the semivolatiles, Aldrin, Dieldrin and Chromium met or exceeded the RALs or SCDMs benchmarks. Dieldrin was found to be more than twice the background level.

Sediment sample X205 was collected in zero to eighteen inches of sediment, approximately two feet under the water surface. The sample location was at the start of the Marshall County State Conservation Area, three tenths of a mile down stream from the site. No contaminants were found above background or met the RALs or SCDMs benchmarks.

3.8 KEY SAMPLES

The purpose of this section is to provide information on key samples or analytical data of HRS quality obtained during the Integrated Assessment of the Grieve's Woolen Mill. Table 3-2 "Key Sample Summary", provides a summary of those samples collected which contain contaminants that meet HRS criteria and were detected at levels significantly above background concentrations. The soil samples were compared to sample X101 and the sediment samples were compared to sample X201.

Chromium was found in the sediment samples along the Illinois River floodplain adjacent to the site. The Chromium levels (239.0 to 1070.0 ppm) were significantly above the background level (30.7 ppm) for the river sediments. The semivolatile compounds identified in most of the samples were mostly in the form of Polycyclic Aromatic Hydrocarbons (PAHs). PAHs come from a variety of sources including wood and coal burning. Both activities were likely to have occurred at the site over the many years of its operation.

SECTION 4 IDENTIFICATION OF SOURCES

4.1 INTRODUCTION

This section describes the various hazardous waste sources which have been identified in the initial stages of the Integrated Assessment.

Information concerning the size, volume and waste composition of each source has been collected during the Integrated Assessment. The values presented are based on documented visual observations, preliminary investigative reports, aerial photography, invoices and analytical data. It should be noted however, that the number and nature of the sources may be subject to change. The site may be redefined as it progresses through the CERCLA site investigation program and receives further investigation.

4.2 CONTAMINATED SOIL

Soil samples collected during the Integrated Assessment inspection indicate that there are areas of contaminated soil on the Grieves Woolen Mill property. The samples were collected at depths ranging from zero to 24 inches but the depth that the contamination extends is unknown. The area within the contaminated sampling points was measured using a polar planimeter from an aerial photograph taken on May 2, 1985 by the Illinois Department of Transportation and estimated to be 1.72 acres or 74923.2 square feet. The origin of the wastes is from the discharge of dye excesses and wastes and from coal ash and smokestack emissions. The wastes are scattered around the west half of the site and have no containment features to prevent further migration to surface waters. Substances found in significant concentrations include semivolatiles, pesticides and inorganics.

One surface soil sample was collected from zero to four inches of depth from the residential property immediately south of the site. The area of the residential contamination was included within the area for the site itself and consists of approximately .4 acres or 17424 square feet. The origin of the source was the proximity to the smokestack emissions and the down slope location to the dye runoff flow. The amounts and concentrations of semivolatiles and pesticides were significantly less than their on site counterparts. The

inorganic contaminants were only slightly above background. No Chromium was identified off site.

4.3 POTENTIAL UNDETECTED SOURCES

During the site reconnaissance activities, several drums and containers were identified. Considering the condition of the site, there may be other drums and containers buried under the building debris. During the reconnaissance activities, the owners identified two garbage bags of asbestos. The source is probably from the demolition of the structures and pipelines throughout the site. Asbestos was not sampled for during the CERCLA investigation.

5.0 MIGRATION PATHWAYS

5.1 <u>INTRODUCTION</u>

The CERCLA Site Assessment Program identifies three migration pathways and one exposure pathway by which hazardous substances may pose a threat to human health and/or the environment. Consequently, sites are evaluated on their known potential impact to these four pathways. The pathways evaluated are groundwater migration, surface water migration, soil exposure and air migration.

This section presents and discusses information collected during the CERCLA Integrated Assessment inspection of the

Grieves Woolen Mill site. This information, together with the information documented in other sources will be utilized in analyzing the site's impact on the four pathways and the various human and environmental targets within the established target distance limits.

Discussions of the pathways will include pathway descriptions, contaminant sources and targets such as human populations, fisheries, endangered species, wetlands and other sensitive environments.

5.2 GROUNDWATER

No groundwater samples were collected during the April 25 and 26, 1995 Integrated Site Assessment inspection of the Grieves Woolen Mill site. The geology of the Grieves Woolen Mill site area consists of Wisconsin glacial tills overlying bedrock. The bedrock consists of fractured Silurian and Ordovician aged dolomite and the St. Peter sandstone. The Illinois River is adjacent to the site and has loess deposits more than twenty feet in thickness along the bluffs. The direction of groundwater flow is believed to be to the west southwest towards the river. Several seeps were identified on the floodplain and the bluffs along the Illinois River. The flows were steady and the runoff drained into the river.

Information obtained from phone interviews with City of Lacon

Department of Water personnel indicate that the city's water supply is obtained from three 48 foot deep blended groundwater wells producing approximately 182 million gallons per year. The city wells are located up gradient approximately .2 miles from the site. The community of Sparland is located across the Illinois River from the site. Groundwater flow is expected to flow towards the river, so the Sparland area groundwater is not likely to be effected.

The estimated population utilizing groundwater around the site

is:	Distance (miles)	Potential Population
	0 to 1/4	524
	>1/4 to $1/2$	707
	>1/2 to 1	676
	> 1 to 2	689
	> 2 to 3	251
	> 3 to 4	175

The above numbers were estimated from the number of residences in each distance ring from U.S. Geological Survey (USGS) topographic quadrangle maps and calculating the population in each ring based on multiplying the number of counted households by the average number of persons per household according to the U.S. Census Bureau 1990 census data. The community of Sparland was considered in the population count although it is unlikely that they are effected.

5.3 SURFACE WATER

No surface water samples were collected during the April 25 and

26, 1995 Integrated Assessment of the Grieves Woolen Mill site. Five sediment samples were collected along the Illinois River floodplain which forms the sites west boundary, during the CERCLA Integrated Assessment inspection. The samples were collected along a segment of the river approximately 1200 feet (.2 miles) in length. The segment along the site itself is approximately 379 feet (.07 miles). Wasted or excess dyes were allowed to flow overland then into the Illinois River during mill operations. Ash and coal residues from the power plant were dumped onto the bluff above the floodplain. Currently, the site in covered with debris including drums, water heaters, tires, power plant cinder and ashes, building debris and scrap metal. There are no containment features to control migration into the Illinois River. Contaminants include semivolatiles, pesticides and inorganic compounds.

According to Illinois Environmental Protection Agency files, there are no surface drinking water intakes located along the 15-mile down stream surface water route starting at the site. The original pathway of migration was from the various discharge pipes then an overland flow down the bluffs and across the floodplain then into the river. The original Illinois River water levels were substantially lower prior to the installation of down stream dams. Therefore, the amount of effected sediment area may be significantly larger than presently identified area. The current migration pathway

consists of rain and seep runoff contacting the contaminants and entering the river. There are no containment features for migration control. During Integrated Assessment sampling activities, the Illinois River was at flood levels with the waters completely covering the floodplain allowing further contaminant contact and migration.

According to National Wetland Inventory maps, there are no wetlands on or immediately adjacent to the site. The Marshall County State Conservation Areas including Sawyer Slough and its wetlands starts approximately two tenths of a mile down stream and continues the rest of the 15-mile target distance. The Illinois River is classified as a fishing river by the Illinois Department of Conservation. Information regarding the types and locations of sensitive environments, protected or endangered species and other sensitive environmental habitats are not presently available. As soon as the information is available, the file will be updated. The lower portion of the site including the floodplain and the bluff is within the 100 year floodplain. As mentioned earlier, during the sampling activities, the river flood stage was up to the bluff line.

5.4 AIR PATHWAY

No documented releases to the air where observed in the breathing zone during the sampling activities of April 25 and 26, 1995. HNu photo-ionization readings with a 10.2 eV lamp

were taken when possible while taking the soil/sediment samples. Due to rainy conditions, it was not always possible to monitor the air pathway. None of the samples indicated values above background air levels. However, if the soil is agitated or excavated, contaminants may become airborne. The estimated population within a four mile radius of the site is:

POPULATION
0
524
707
676
689
251
175

5.5 SOIL EXPOSURE PATHWAY

Ten soil samples were collected during the Integrated Assessment inspection to document areas of observed or potential contamination attributable to the site. Sample X101 was taken as a background at Johnson Grove Park. The Grieves Woolen Mill property is currently idle. Most of the old structures have been demolished or are in decay. Building debris covers most of the site. The site is not in a high traffic area. Only the front of the site has a fence to deter trespassers. Both sides of the site are easily accessible. The Illinois River forms a natural barrier to the west, but access is still easy along the floodplain. The Police Department keeps a high visibility to help deter unlawful entry. There are no schools or daycare facilities on site. The estimated population

within a one mile radius is:

DISTANCE (miles)	POPULATION
onsite 0 to 1/4	0 524
>1/4 to 1/2	707
>1/2 to 1	676

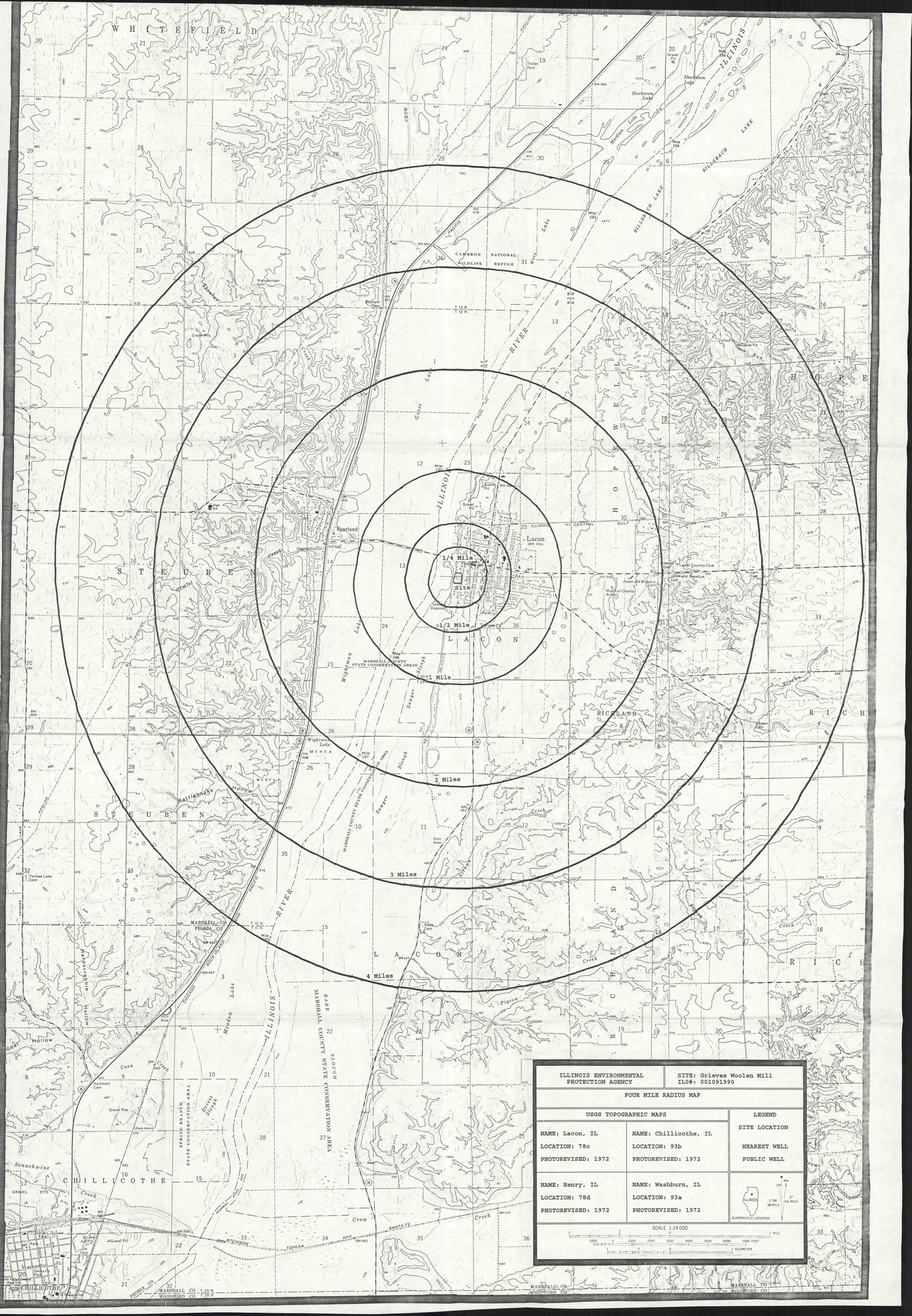
The above figures were estimated from USGS topographic quadrangle maps and the persons per household for Marshall County.

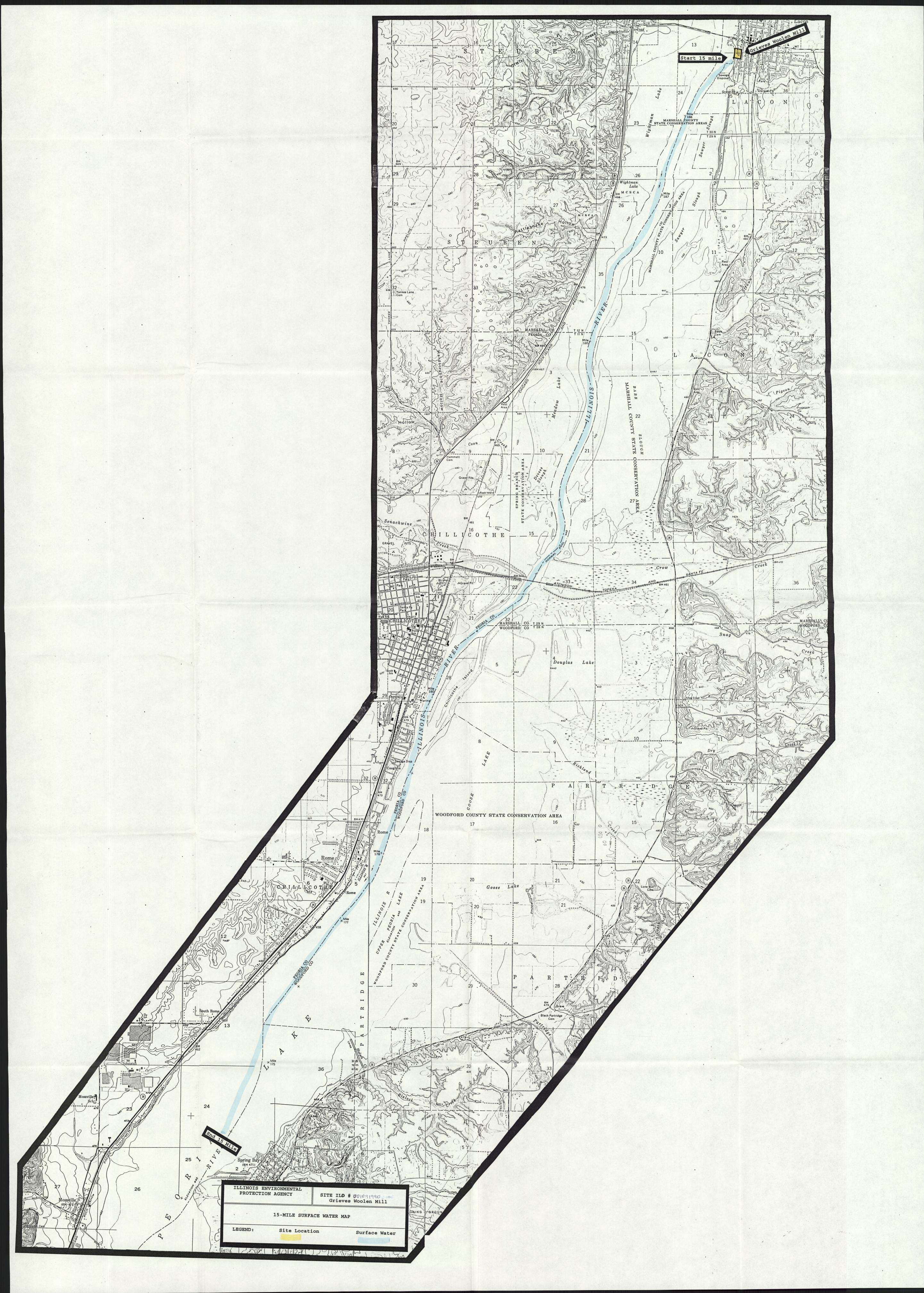
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- Federal Emergency Management Agency; Flood Insurance maps
- Illinois Department of Conservation, Division of Planning, Impact Analysis Section Supervisor
- Illinois Department of Transportation aerial photographs;
 Bureau of Location and Environment, Aerial Survey Section
- Meierkord, Brian, City of Lacon Attorney, Telephone conversation February 9, 1995
- Rainfall Frequency Atlas of the United States, Technical Paper Number 40, US Department of Commerce
- US Department of the Interior, National Wetland Inventories maps
- US Geological Survey Topographic 7.5 minute quadrangle maps

APPENDIX A

SITE 4-MILE RADIUS MAP SITE 15-MILE SURFACE WATER MAP





APPENDIX B

U.S. EPA FORM 2070-13

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POTENTIAL HAZARDOUS WASTE SITE

LIDENTIFICATION

SEPA	PART 1 - SIT	SITE INSPEC E LOCATION AN		EPORT ECTION INFORMA	ATION	ILD 001041990
II. SITE NAME AND LOCATION						· · · · · · · · · · · · · · · · · · ·
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Grieves Wooks	mill			in Street		
					06 COUNTY	07COUNTY 08 CONG CODE DIST
Lacon		10 TYPE OF OWNERS			Marshell	123 17
4102 45.5 089	LONGITUDE 245C.0	☐ A. PRIVATI	E (18. F)	EDERAL	C. STATE D. COUNTY	
III. INSPECTION INFORMATION	SITE STATUS	03 YEARS OF OPER	ATION	·-· -·· · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
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MONTH DAY YEAR 04 AGENCY PERFORMING INSPECTION (Check of that apply)	8€	GINNING Y	EAR ENDING YEAR	<u> </u>	
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E. STATE DF. STATE CONTRA	CTOR	Name of firm)		THER		(Name of firm)
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13 SITE REPRESENTATIVES INTERVIEWE	io	14 TITLE		15ADDRESS		16 TELEPHONE NO
Mayer Frenk Doley	met	Mayer			th Street Lacen,	11 (309) 246 619
Brian Meierkon		City Att	7	116 S. Mein	St. PO Box 188 Leion, IL	(309) 246-2513
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IV. INFORMATION AVAILABLE	ROM					
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Te & Present		I E //				(217) 524-3511
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POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

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II. WASTES	TATES, QUANTITIES, AN	D CHARACTER	ISTICS		***************************************	·	-
01 PHYSICALS	TATES (Choca of the seeky) □ E. SLURRY R. FINES 987. LIQUID : □ G. GAS	02 WASTE QUANT	TTY AT SITE	03 WASTE CHARACT CI A. TOXIC CI B. CORRIC CI C. RADIO/ SZ D. PERSIS	ACTIVE DI GLELAMI	RLE II I. HIGHLY' TIOUS II J. EXPLOS WABLE II K. REACTI	IIVE VE PATIBLE
III. WASTE T	YPE						
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE						
OLW	OILY WASTE						
SOL	SOLVENTS						
PSD	PESTICIDES						
occ	OTHER ORGANIC CH	HEMICALS					
ЮС	INORGANIC CHEMIC	ALS					
ACD	ACIDS ·						
BAS	BASES		<u> </u>				
MES	HEAVY METALS			·	Unknown C	itys due to du	metica es mill
	DUS SUBSTANCES (See As				 		L on MEASURE OF
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE/DIS		05 CONCENTRATION	06 MEASURE OF CONCENTRATION
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5.4	Interviews Reconnassince Environmental			100(B)			

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

OI STATE OZ SITE MUMBER

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS IL HAZARDOUS CONDITIONS AND INCIDENTS 01 Z A. GROUNDWATER CONTAMINATION 02 COBSERVED (DATE: E POTENTIAL 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: .. The Illinois River was stained by the alyas whized? The Dyos were allowed to flow overlevel prior to reaching the river. This may allow perceletion to the sound

01 Ø B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION The Illine's River's color was determined by the objectors in use. Metals and across were whiteed for the dyes. The population is unknown due to the long direction of mill operations.

02 OBSERVED (DATE. 01 C. CONTAMINATION OF AIR □ POTENTIAL □ ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

01 D. FIRE/EXPLOSIVE CONDITIONS 02 COBSERVED (DATE: O POTENTIAL ☐ ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

NA

NA

01 E. DIRECT CONTACT 02 C OBSERVED (DATE: 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED:

Numerous though unsubstantiated reports of dye workers with

01 X F. CONTAMINATION OF SOIL 02 COBSERVED (DATE: . 04 NARRATIVE DESCRIPTION The muste tenuscal dyes were allowed to flow overtied prior to reaching The Illiania River.

02 (I OBSERVED (DATE: ____ 04 NARRATIVE DESCRIPTION 01 X G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: . There were several wells located on site - but no information on usages.

There are no active wells located near the site 01 K. H. WORKER EXPOSURE/INJURY 04 NARRATIVE DESCRIPTION 03 WORKERS POTENTIALLY AFFECTED: . up until the site will closed. Workers were exposed to the class

There are no workers present on the site

01 (%), POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION The front of the property is fenced. Honever, the sides and olong the river are open. The police Dept. teceps a high visibility profile, but occass can still be gained.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION

SEPA O1 STATE O2 SITE NUMBER PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS IL HAZARDOUS CONDITIONS AND INCIDENTS (CA 01 [] J. DAMAGE TO FLORA 02 C OBSERVED (DATE: 04 NARRATIVE DESCRIPTION None Observed - stomed/discolored scils were located on roudings so it is unlikely to be regeteted 01 J K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION IN None Observed 01 XL CONTAMINATION OF FOOD CHAIN 02 C OBSERVED (DATE: _ 04 NARRATIVE DESCRIPTION Possible due to chromium in dies released to Illinois River 01 M. UNSTABLE CONTAINMENT OF WASTES 02 COBSERVED (DATE: ___ 03 POPULATION POTENTIALLY AFFECTED: Unknown 04 NARRATIVE DESCRIPTION The clye resides twesks were free to flow into the Illinois River. 02 C OBSERVED (DATE: _____) 012 N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION It is uncertain how for down river the sectiments have been 01 🗆 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTP: 02 🗀 OBSERVED (DATE: _ 04 NARRATIVE DESCRIPTION Unlikely due to direct romoff to Illinois River 02 TOBSERVED (DATE: 01 X P. ILLEGAL/UNAUTHORIZED DUMPING E ALLEGED 04 NARRATIVE DESCRIPTION The runoff flowed directly into the River 05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS Possible burning of PCB oils Possible assesses on site III. TOTAL POPULATION POTENTIALLY AFFECTED: IV. COMMENTS The mill operated for over 10071s. It is inknown the hen many and to what extent that the population and the environment has been effected. Over the years of operation, practices & precedure's may have changed which V. SOURCES OF INFORMATION (CITO assente references, A. g., 38810 Med., sample analysis, reserves Site Interviews Site Reconnaissance 5.to Environment Supplie

POTENTIAL HAZARDOUS WASTE SITE LIDENTIFICATION							
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	PART 4 - PERMIT	AND DESC	CRIP	TIVE INFORMAT	ON	<u> </u>	
IL PERMIT INFORMATION							
01 TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE ISS	UED	04 EXPRATION DATE	05 COMMENTS		
A. NPDES	,			: 			
☐ B. UIC							
G. AIR	, ,		1				
D. RCRA	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 7	T				
E. RCRA INTERIM STATUS	/ \ /	1	1				
F. SPCCPLAN	1 / //		7				
C. G. STATE (Specify)	/ /	/	Ţ				
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I J. NONE							
III. SITE DESCRIPTION							
01 STORAGE/DISPOSAL (Check at that eachy) 02	AMOUNT 03 UNIT OF	MEASURE	04 TP	EATMENT (Cheek at the a	10 ¹ /1	05 OTHER	
☐ A. SURFACE IMPOUNDMENT		,		INCENERATION			
O B. PILES			□ 8.	UNDERGROUND INJ	ECTION	A. BUILDINGS ON SITE	
C. DRUMS, ABOVE GROUND D. TANK, ABOVE GROUND			_	CHEMICALIPHYSICA	iL '	ļ	
E TANK, BELOW GROUND			_	BIOLOGICAL WASTE OIL PROCES	SIMS	06 AREA OF SITE	
O F. LANDFILL	otag	, ,		SOLVENT RECOVER	-		
G. LANDFARM	_//////////////	<u> </u>	□ G.	OTHER RECYCLING	RECOVERY	(Ac/es)	
☐ H. OPEN DUMP			□ H.	OTHER	eri		
I. OTHER					.—. ,,		
07 COMMENTS							
1							
IV. CONTAINMENT							
01 CONTAINMENT OF WASTES (Crock and)		\		-	_		
A. ADEQUATE, SECURE	G 8. MODERATE	∑Z C. INA	.DEQ1	JATE, POOR	O O. INSEC	URE, UNSOUND, DANGEROUS	
02 DESCRIPTION OF DRUMS, DIKING, LINERS, BA	ARIERS, ETC.						
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most are	empry.	DIVERS	(2	s neve a ta	ال 11 بحر ع		
V. ACCESSIBILITY						-	
01 WASTE EASILY ACCESSIBLE: TYES	□ NO	, ,).	O i		le	
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VI. SOURCES OF INFORMATION (Cite apec	45 = 10 = 10 = 10 = 10 = 10 = 10 = 10 = 1						
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SEPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT							NTIFICATION TE 02 STENUMBE	-
		PART 5 - WATER	R, DEMOGRAPHIC	C, AND EN	IVIRONM	ENTAL DATA	L		
IL DRINKING WATER	SUPPLY								
01 TYPE OF DRINKING SUI	PPLY		02 STATUS	NF	7		03	DISTANCE TO SITE	
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IIL GROUNDWATER									
01 GROUNDWATER USE IN	N VICINITY (Check o	100)							
☐ A. ONLY SOURCE F	FOR DRINKING	S. DRINKING (Other sources evalue COMMERCIAL, IN (No egyal water source	MOUSTRIAL IRRIGATION	<u>ر</u>	OMMERCIAL Metud adhar assu	INDUSTRIAL, IRRIGA	TION (3 D. NOT USED, UNU	SEABLE
02 POPULATION SERVED	BY GROUND WAT	EN 2135	_	03 DISTANC	E TO NEARE	ST DANIGHE WATER	WELL _	+ miles 177	in clue of
04 DEPTH TO GROUNDWA	TER	OS DIRECTION OF GRO	OUNDWATER FLOW	OS DEPTH TO	AQUIFER	07 POTENTIAL YIEL	٦	08 SOLE SOURCE	QUIFER
0-		met/	South west	o- co- c	IA m	NA	(gpd).	☐ YES	→40
			-10			·	•		
			NA	·					
10 RECHARGE AREA	· · · · · · · · · · · · · · · · · · ·		NA	11 DISCHAR	•		•		
TYES COMMENT	s	n//)	NA	O YES	GE AREA COMMENT	rs V		·	
☐ YES COMMENTS		<u>/\/}</u>	NA		•	rs /X/	9	·	
☐ YES COMMENTS ☐ NO IV. SURFACE WATER	1	rv /)	NA	O YES	•	rs /X/	9.	· · · · · · · · · · · · · · · · · · ·	
☐ YES COMMENTS	(Check one) ECREATION	Ø B. IRRIGATIO	ON, ECONOMICALLY	□ YES	COMMEN	AL INDUSTRIAL		D. NOT CURRENTL	Y USED
OT SURFACE WATER USE OF THE DRINKING WATER	(Check one) ECREATION ER SOURCE	Ø B. IRRIGATIO	ON, ECONOMICALLY	□ YES	COMMEN	XI		D. NOT CURRENTL	Y USED
OT SURFACE WATER USE OF THE DRINKING WATER	(Check one) ECREATION ER SOURCE	Ø B. IRRIGATIO	ON, ECONOMICALLY	□ YES	COMMEN	XI	0 (D. NOT CURRENTL DISTANCE TO SI	 .
OZ AFFECTED/POTENTIAL	(Cheek ana) ECREATION ER SOURCE LY AFFECTED SC	DES OF WATER	ON, ECONOMICALLY	□ YES	COMMEN	AL INDUSTRIAL AFFECTED	0 (.
OZ AFFECTED/POTENTIAL	(Check one) ECREATION ER SOURCE LY AFFECTED BO	DES OF WATER	ON, ECONOMICALLY	□ YES	COMMEN	AL INDUSTRIAL	0 (DISTANCE TO SI	TE (mi)
OZ AFFECTED/POTENTIAL	(Check one) ECREATION ER SOURCE LY AFFECTED BO	DES OF WATER	ON, ECONOMICALLY	□ YES	COMMEN	AL INDUSTRIAL AFFECTED	0 (DISTANCE TO SI	TE (mi
OZ AFFECTED/POTENTIAL	(Check one) ECREATION ER SOURCE LY AFFECTED BO	DES OF WATER	ON, ECONOMICALLY	□ YES	COMMEN	AL INDUSTRIAL AFFECTED DS C	0 (DISTANCE TO SI	TE
OZ AFFECTED/POTENTIAL	(Check one) ECREATION ER SOURCE LY AFFECTED BC R DIVER	DES OF WATER	ON, ECONOMICALLY	□ YES	COMMERCE	AL INDUSTRIAL AFFECTED DS C		DISTANCE TO SI	TE (mi

The entire community of Lecon lies within 4 miles of the sit.

Residential areas are immediately across Main St & 1st streets.

However, the anteninetion is preclaminantly restricted to the mest side of the property-away from public exposure.

ŞEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION
O1 STATE 02 SITE NUMBER

ALLY	PART 5 - WATER, DEMOGRAPH	IC, AND ENVIRONMENTAL DATA	
VI. ENVIRONMENTAL INFORMA	ATION		
01 PERMEABILITY OF UNSATURATED Z			
MA [] A. 10-4 - 10-	- e cm/sec □ 8. 10-4 - 10-6 cm/sec □	C. 10 ⁻⁴ ~ 10 ⁻³ cm/sec ☐ D. GREATER THAN	110 ⁻³ cm/sec
02 PERMEABILITY OF BEDROCK (Cheer	ene)		
NA A IMPERA	MEABLE © B. RELATIVELY IMPERMEABL 10 ⁻⁶ anysec) (10 ⁻⁴ - 10 ⁻⁶ anysec)	LE C. RELATIVELY PERMEABLE C. D. VER	Y PERMEABLE or steen 10 ⁻² convised;
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL OH	
UNK	UNK(H)	unk	
06 NET PRECIPITATION 3 2	07 ONE YEAR 24 HOUR RAINFALL	ON SLOPE DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
OS FLOOD POTENTIAL	<u> </u>	wsu	<u> </u>
SITE IS IN 100 YEAR FLO		ER ISLAND, COASTAL HIGH HAZARD AREA, RIVE	RINE FLOODWAY
11 DISTANCE TO WETLANDS (5 acre miner	num)	12 DISTANCE TO CRITICAL HABITAT (of entangered speci	•4)
ESTUARINE	OTHER	 	(mi)
A. NA (mi)	B. <u>• 15</u> (mi)	ENDANGERED SPECIES:	
13 LAND USE IN VICINITY	····		
DISTANCE TO:			
COMMERCIAL/INDUSTR	RESIDENTIAL AREAS; NATION FORESTS, OR WILDLIF		URAL LANDS AG LAND
A(mi)	B. 100 C+	(mi) C(mi	D. wak (mi)
14 DESCRIPTION OF SITE IN RELATION			
Site is located	In dentora Lacon, as	ecst shore of the long the Illinois Rivera Th	rere are residences
to the east & So	outhy and businessies 24	merine to the north	
1		& lie 15 miles demostres	٠,
The general	slipe is to the wsir	towned the river.	
·			
		·	
•		: .	
·	·		,
VII COUDORS OF INFORMATIO	W		
VII. SOURCES OF INFORMATIO		/mports)	
Site Reconnecs	ence		

ŞEPA		OTENTIAL MAZARDOUS WASTE SITE SITE INSPECTION REPORT ART 6 - SAMPLE AND FIELD INFORMATION	01 STATE 02	SITE NUMBER
IL SAMPLES TAKEN			:	
SAMPLE TYPE	OT NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	₹ .	03 ESTIMATED DATE
GROUNDWATER			· ·	
SURFACE WATER	None			
WASTE	None			
AIR	None			
RUNOFF	None			
, spill	None			
SOIL	10	IEPA Labs incornic - Springfield		here results
VEGETATION	None			
OTHER - Sectionent	5	IRPA Labs morganic - Springfreld	,	here results
IIL FIELD MEASUREMENTS TA	KEN			
V. OTHER FIELD DATA COLLE	OF MAPS S. Te Asses			
	sa ya wa sa	s samples tocked in IA report		
VI. SOURCES OF INFORMATIO	N (Cite specific references,	e.g., stare files, Asmale analysis, recents		
Site Interne Site Simpli	う			÷1
5. te Pecon.	161551 1CC			

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\$EPA	P	SITE INSP	ARDOUS WASTE SITE ECTION REPORT NER INFORMATION	LIDENTIFI 01 STATE 02	SITE NUMBER
I. CURRENT OWNER(S)			PARENT COMPANY (F		
City of Lacun		02 D+8 NUMBER	08 NAME		DO D+8 NUMBER
3 STREET ADDRESS (P.O. BOLL AFT P. ME.) 406 5th Street		04 SIC CODE	10 STREET ADDRESS (P.O. Bas, APD P. sec.		11 SIC CODE
Lacon	OG STATE	6 1540	12 017	13 STATE	14 ZIP CODE
Lacen Scal Co		C2 D+6 NUMBER	08 NAME		09 D+8 NUMBER
3 STREET ADDRESS (P.O. BOLL APO F. ONL.)		04 SIC CODE	10 STREET ADDRESS (P.O. Ball, APD 4, one		11 SIC CODE
DS CITY	IOS STATE	07 ZIP CODE	12 GTY	113 STATE	14 ZIP CODE
Lacon	IL	61540			
DI NAME	100	02 0+8 NUMBER	GS NAME	<u>-</u>	09 D+8 NUMBER
3 STREET ADDRESS (P.O. BOL, AFO P. SEC.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, AFD P. see	<u> </u>	11SIC CODE
DS CITY	08 STATE	07 ZIP CODE	12 CTY	13 STATE	1 4 ZIP CODE
DI NAME		02 D+8 NUMBER	OS NAME		09 D+6 NUMBER
03 STREET ADORESS (P.O. BOLL RPO #, erc.)	·	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFO J. MC	j	11 SIC CODE
DS CITY	06 STATE	07 ZIP CODE	12 CTY	13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (Lest most re	com firm)		IV. REALTY OWNER(S) (# assessmin)	But most recent first!	
Ray + Meile Jull		02 D+B NUMBER	01 NAME		02 D+8 NUMBER
DI STREET ADDRESS (P.O. Box. RFO P. MEJ		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFO P. etc.	e.)	04 SIC CODE
DS CITY	06 STATE	07 ZIP CODE:	os aty	06 STATE	07 ZIP CODE
DI NAME		02 D+B NUMBER	01 NAME	_	02 D+8 NUMBER
03 STREET ADDRESS (P. O. Box. RPO P. one.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD P. one	<u> </u>	04 SIC CODE
OS CITY	06 STATE	07 ZIP CODE	os city	06 STATE	O7 ZIP COOE
DI NAME		02 0+6 NUMBER	O1 NAME		02 D+8 NUMBER
3 STREET ADDRESS (P. O. BOL. RFO F. ORL.)		04 SIC CODE	Q3 STREET ADDRESS (P.Q. Sea, RFD P, etc.	03 STREET ADDRESS (P.O. Ball, MFD P, etc.)	
SCITY	OBSTATE	07 ZIP CODE	os arv	OS STATE	07 ZIP CODE
V. SOURCES OF INFORMATION /	Cito aposalle reforences.	e.g., state Mea, sumple analys	Mr. (COOKER)		
					_
					•

	POTENTIAL HA		TENTIAL HAZ	ARDOUS WASTE SITE		L IDENTIFICATION		
\$EPA			SITE INSPE	CTION REPORT ATOR INFORMATION	O1 STATE 02	SITE NUMBER		
II. CURRENT OPERAT	OR (Provide If different from			OPERATOR'S PARENT COMPAN	NY (Fassing)			
City of	1.00		02 D+6 NUMBER	10 NAME		11 D+8 NUMBER		
			la conserva					
33 STREET ADDRESS (P. a and 406 5^{t}			04 SIC CODE	12 STREET ADDRESS (P.O. Box, AFD P. sec.)		13 SIC CODE		
is any		06 STATE	07 ZIP CODE	14 CITY	115 STATE	16 ZIP CODE		
Lacen		IL	61540					
S YEARS OF OPERATION	09 NAME OF OWNER	······						
III. PREVIOUS OPERAT	OR(S) (List meet recent 6	rat: provide and	y il different from gumen	PREVIOUS OPERATORS' PAREN	NT COMPANIES (F.			
1 NAME			02 D+8 NUMBER	10 NAME		11 D+8 NUMBER		
S STREET ADDRESS (P.O. &	ac RFD F, MEJ	·	04 SIC CODE	12 STREET ADDRESS (P.O. Sox, AFD #, osc.)	, <u>, , , , , , , , , , , , , , , , , , </u>	13 SIC CODE		
s ary		06 STATE	07 ZIP CODE	14 GTY	15 STATE	16 ZIP CODE		
8 YEARS OF OPERATION	09 NAME OF OWNER	DURING THE	S PERIOD	·				
01 NAME	<u>.</u>		02 D+B NUMBER	10 NAME		11 D+8 NUMBER		
3 STREET ACCRESS (P.O. ac	IZ, MOV, esc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, AFO #, etc.)	·	13 SIC CODE		
S CITY		06 STATE	07 ZIP COD€	14 CTY	15 STATE	15 ZIP CODE		
B YEARS OF OPERATION	09 NAME OF OWNER	DUPING THE	S PERIOD			•		
1 NAME	<u> </u>	1	02 D+8 NUMBER	10 NAME		11 D+8 NUMBER		
(NAME				10.53.5	!	, , , , , , , , , , , , , , , , , , ,		
3 STREET ADDRESS (P.O. M	us, APO F, etc.)		04 SIC CODE	12 STREET ADORESS (P.O. Bez, RFD P, etc.)	_ _	13 SIC CODE		
s City	·	06 STATE	O7 ZIP COOE	14 CITY	15 STATE	16 ZIP CODE		
ME YEARS OF OPERATION	09 NAME OF OWNER	DURING THE	S PERIOD					
			<u></u>					
IV. SOURCES OF INFO	HMATION (Cle speed	le references.	o.g., 19910 (Bas, Jamelo Ana)					
					•	- -		

	P	OTE	NTIAL HAZAF	RDOUS WASTE SITE		DENTIFI		
SEPA			SITE INSPEC	TION REPORT	01	STATE 02	SITE	NUMBER
II. ON-SITE GENERATOR								
01 NAME	1	02 D+	B NUMBER					
$I \longrightarrow \mathcal{N}A$		ļ						
03 STREET ADDRESS (P.O. Box, APO P. orc.)		<u> </u>	04 SIC CODE					
		- 1						
OS CITY	06 STATE	07 20	CODE	•				
·								
III. OFF-SITE GENERATOR(S)						:.		
OI NAME		02 04	B NUMBER	01 NAME			02 D-	+8 NUMBER
147								
03 STREET ADDRESS (P.O. Box, RFD P. etc.)]	04 SIC CODE	03 STREET ADORESS (P.O. Box, APO A. etc.)			- 1	04 SIC CODE
	To a contract	1						
os CITY	06 STATE	107 ZI	CODE	OS CITY		08 STATE	07 ZI	PCODE
O1 NAME	J	02 D-	-B NUMBER	01 NAME			02 D	+8 NUMBER
								. <u> </u>
03 STREET ADDRESS (P.O. Box, RFD P, sec.)		<u> </u>	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RPO P. esc.)	.			04 SIC CODE
		ł				•	1	
OS CITY	OB STATE	07 Z	PCODE	05 CITY		06 STATE	07 ZI	P CODE
· ·				İ]		
IV. TRANSPORTER(S)	<u> </u>	1	<u> </u>					
01 NAME		02 D-	-B NUMBER	01 NAME			02 D	FABMUN 8+
N M	•							
03 STREET ADDRESS (P.O. Box, RFD #, MC.)			04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD P. esc.)				04 SIC CODE
		ł					İ	•
05 CITY	06 STATE	07 Z	CODE	OS CITY		OS STATE	07 Z	PCODE
	1							
01 NAME		02 0-	-8 NUMBER	01 NAME			02 D	+9 NUMBER
		<u> </u>					L,	
03 STREET ADDRESS (P. O. Box, RFD P. etc.)		ľ	04 SIC CODE	03 STREET ADDRESS (P.O. SOL, RFO P. MC.)			Ì	04 SIC CODE
05 CITY	06 STATE	107.7	n cons	OS CITY		06 STATE	107.7	19 CODE
03 (4) 7	JOS SIAIL	10, 2		03 (41)			ء ''ا	F 600E
V. SOURCES OF INFORMATION (Cite see		<u> </u>				L	L	
V. SCORCES OF INFORMATION (CASE)	THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY	4.9 30	10 MIL SHOP SHOPE, /1	рола)				
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l	•							
EPA FORM 2070-13 (7-81)								

O FDA	POTENTIAL HAZARDOUS WASTE SITE L IDENTIFICATION		
\$EPA ;	SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES		O1 STATE O2 SITE NUMBER
PAST RESPONSE ACTIVITIES			
01 () A. WATER SUPPLY CLOSED	02 DATE	03 AGENCY	
04 DESCRIPTION	9 .		•
01 @ 8. TEMPORARY WATER SUPPLY PROVIDED	02 DATE	03 AGENCY	
04 DESCRIPTION //			
01 C. PERMANENT WATER SUPPLY PROVIDED	02 DATE	03 AGENCY	
04 DESCRIPTION · NA			
01 D. SPILLED MATERIAL REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION NA			
01 E. CONTAMINATED SOIL REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION NA	,		
01 🗆 F. WASTE REPACKAGED	02 DATE	03 AGENCY	
04 DESCRIPTION NA	·	-	
01 C G. WASTE DISPOSED ELSEWHERE	02 DATE	03 AGENCY	
04 DESCRIPTION NA			
01 H. ON SITE BURIAL	02 DATE	03 AGENCY	
04 DESCRIPTION //			
01 🗆 I. IN SITU CHEMICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION NA			
01 J. IN SITU BIOLOGICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION		•	
01 K. IN SITU PHYSICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION N A			
01 L ENCAPSULATION	02 DATE	03 AGENCY	
04 DESCRIPTION N/			
01 M. EMERGENCY WASTE TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION NA			
01 I N. CUTOFF WALLS	02 DATE	03 AGENCY	
04 DESCRIPTION NA			
01 O. EMERGENCY DIKING/SURFACE WATER D	OVERSION 02 DATE	03 AGENCY	
04 DESCRIPTION NA			
01 □ P. CUTOFF TRENCHES/SUMP	02 DATE	03 AGENCY	
04 DESCRIPTION			
01 C Q. SUBSURFACE CUTOFF WALL	02 DATE	03 AGENCY	·
04 DESCRIPTION		•	•
/ V / /			

	POTENTIAL HAZARDOUS WASTE SITE		L IDENTIFICATION
\$EPA	SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES		01 STATE 02 SITE NUMBER
II PAST RESPONSE ACTIVITIES (Communication)	· · · · · · · · · · · · · · · · · · ·		
01 C R. BARRIER WALLS CONSTRUCTED	02 DATE	03 AGENCY	
04 DESCRIPTION	NA		·
01 S. CAPPING/COVERING	NA	03 AGENCY	
01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION	NA	03 AGENCY	
01 G U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE		
01 ☐ V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 Z W. GAS CONTROL 04 DESCRIPTION	O2 DATE		
01 C X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY	
01 DY. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE		
01 © Z. AREA EVACUATED 04 DESCRIPTION		•	
01 C 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	O2 DATE	03 AGENCY	
01 T 2. POPULATION RELOCATED 04 DESCRIPTION	NA O2 DATE	03 AGENCY	
01 T 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY	/
	<i>N [</i> 7]		.:



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

01 STATE 02 SITE NUMBER

IL ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION (I) YES (XNO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

The mill was required to build a masterater treatment facility, but closed prior to the facility's apparation.

III. SOURCES OF INFORMATION (Cito appeals referenced, e.g., state flox, sample analysis, reports)

EPA FORM 2070-13 (7-81)

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APPENDIX C

TARGET COMPOUND LIST

TARGET COMPOUND LIST

Volatile Target Compounds

Chloromethane	1,2-Dichloropropane
Bromomethane	cis-1,3-Dichloropropene
Vinyl Chlorde	Trichloroethene
Chloroethane	Dibromochloromethane
Methylene Chloride	1,1,2-Trichloroethane
Acetone	Benzene
Carbon Disulfide	trans-1,3-Dichloropropene
1,1-Dichloroethene	Bromoform
1,1-Dichloroethane	4-Methyl-2-pentanone
1,2-Dichloroehtene (total)	2-Hexanone
Chloroform	Tetrachloroethene
1,2-Dichloroethane	1,1,2,2-Tetrachloroethane
2-Butanone	Toluene
1,1,1-Trichloroethane	Chlorobenzene
Carbon Tetrachloride	Ethylbenzene
Vinyl Acetate	Styrene
Bromodichloromethane	Xylenes (total)

Base/Neutral Target Compounds

Hexachloroethane	2,4-Dinitrotoluene
bis(2-Chloroethyl) Ether	Diethylphthalate
Benzyl Alcohol	N-Nitrosodiphenylamine
bis (2-Chloroisopropyl) Ether	Hexachlorobenzene
N-Nitroso-Di-n-Propylamine	Phenanthrene
Nitrobenzene	4-Bromophenyl-phenylether
Hexachlorobutadiene	Anthracene

2-Methylnaphthalene	Di-n-Butylphthalate
1,2,4-Trichlorobenzene	Fluoranthene
Isophorone	Pyrene
Naphthalene	Butylbenzylphthalate
4-Chloroaniline	bis(2-Ethylhexyl)Phthalate
bis(2-chloroethoxy)Methane	Chrysene
Hexachlorocyclopentadiene	Benzo(a)Anthracene
2-Chloronaphthalene	3-3'-Dichlorobenzidene
2-Nitroaniline	Di-n-Octyl Phthalate
Acenaphthylene	Benzo(b)Fluoranthene
3-Nitroaniline	Benzo(k)Fluoranthene
Acenaphthene	Benzo(a)Pyrene
Dibenzofuran	Ideno(1,2,3-cd)Pyrene
Dimethyl Phthalate	Dibenz(a,h)Anthracene
2,6-Dinitrotoluene	Benzo(g,h,i)Perylene
Fluorene	1,2-Dichlorobenzene
4-Nitroaniline	1,3-Dichlorobenzene
4-Chlorophenyl-phenylether	1,4-Dichlorobenzene

Acid Target Compounds

Benzoic Acid	2,4,6-Trichlorophenol
Phenol	2,4,5-Trichlorophenol
2-Chlorophenol	4-Chloro-3-methylphenol
2-Nitrophenol	2,4-Dinitrophenol
2-Methylphenol	2-Methyl-4,6-dinitrophenol
2,4-Dimethylphenol	Pentachlorophenol
4-Methylphenol	4-Nitrophenol
2,4-Dichlorophenol	·

Pesticide/PCB Target Compounds

alpha-BHC	Endrin Ketone
beta-BHC	Endosulfan Sulfate
delta-BHC	Methoxychlor
gamma-BHC (Lindane)	alpha-Chiordane
Heptachlor	gamma-Chlordane
Aldrin	Toxaphene
Heptachlor epoxide	Aroclor-1016
Endosulfan i	Aroclor-1221
4,4'-DDE	Aroclor-1232
Dieldrin	Aroclor-1242
Endrin	Aroclor-1248
4,4'-DDD	Aroclor-1254
Endosulfan II	Aroclor-1260
4,4'-DDT	

Inorganic Target Compounds

Aluminum	Manganese	
Antimony	Mercury	
Arsenic	Nickel	
Barium	Potassium	
Beryllium	Selenium	
Cadmium	Silver	
Calcium	Sodium	
Chromium	Thallium	
Cobolt	Vanadium	
Copper	Zinc	
Iron	Cyanide	
Lead	Sulfide	
Magnesium		······································

DATA QUALIFIERS

QUALIFIER	DEFINITION ORGANICS	DEFINITION INORGANICS
U	Compound was tested for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For soil samples subjected to GPC clean-up procedures, the CRQL is also multiplied by two, to account for the fact that only half of the extract is recovered.	Analyte was analyzed for but not detected.
J	Estimated value. Used when estimating a concentration for tentatively identified compounds (TICS) where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria and the result is less than the sample quantitation limit but greater than zero. Used in data validation when the quality control data indicate that a value may not be accurate.	Estimated value. Used in data validation when the quality control data indicate that a value may not be accurate.
С	This flag applies to pesticide results where the identification is confirmed by GC/MS.	Method qualifier indicates analysis by the Manual Spectrophotometric method.
В	Analyte was found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	The reported value is less than the CRDL but greater than the instrument detection limit (IDL).
D	Identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is reanalyzed at a higher dilution factor as in the "E" flag, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values are flagged with the "D" flag.	Not used.
E	Identifies compounds whose concentrations exceed the calibration range for that specific analysis. All extracts containing compounds exceeding the calibration range must be diluted and analyzed again. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses must be reported on separate Forms I. The Form I for the diluted sample must have the "DL" suffix appended to the sample number.	The reported value is estimated because of the presence of interference.
A	This flag indicates that a TIC is a suspected aldol concentration product formed by the reaction of the solvents used to process the sample in the laboratory.	Method qualifier indicates analysis by Flame Atomic Absorption (AA).
M	Not used.	Duplicate injection (a QC parameter not met).

N	Not used	Spiked sample (a QC parameter not met).
s	Not used.	The reported value was determined by the Method of Standard Additions (MSA).
w	Not used.	Post digestion spike for Furnace AA analysis (a QC parameter) is out of control limits of 85% to 115% recovery, while sample absorbance is less than 50% of spike absorbance.
•	Not used.	Duplicate analysis (a QC parameter not within control limits).
ţ. +	Not used.	Correlation coefficient for MSA (a QC parameter) is less than 0.995.
P	Not used.	Method qualifier indicates analysis by ICP (Inductively Coupled Plasma) Spectroscopy.
cv	Not used.	Method qualifier indicates analysis by Cold Vapor AA.
AV	Not used.	Method qualifier indicates analysis by Automated Cold Vapor AA.
AS	Not used.	Method qualifier indicates analysis by Semi-Automated Cold Spectrophotometry.
Т	Not used.	Method qualifier indicates Titrimetric analysis.
NR	The analyte was not required to be analyzed.	The analyte was not required to be analyzed.
R	Rejected data. The QC parameters indicate that the data is not usable for any purpose.	Rejected data. The QC parameters indicate that the data is not usable for any purpose.

APPENDICES D1 & D2

SITE PHOTOGRAPHS

D1 Reconnaissance D2 Sampling Event

DATE: 4-25-95

SITE ILO#: 001091990

COUNTY: Marshall

TIME: 10:15 am

SITE NAME: Grieves Woolen Mill

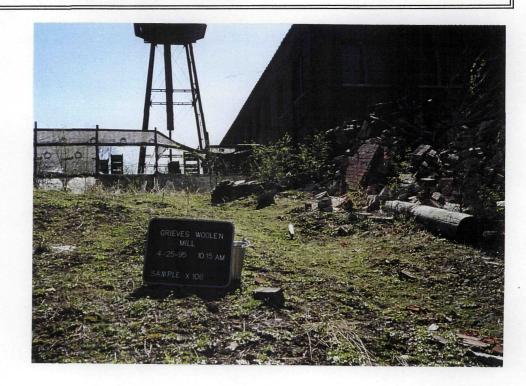
PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo #1 taken toward the east. Sample X106

on discolored soil

north of boiler

room.



DATE: 4-25-95

TIME: 10:15 am

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo #2 taken to west. Sample X106 taken

on discolored soil



DATE: 4-25-95

SITE ILO#: 001091990 COUNTY: Marshall

TIME: 10:30 am

SITE NAME: Grieves Woolen Mill

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo #3

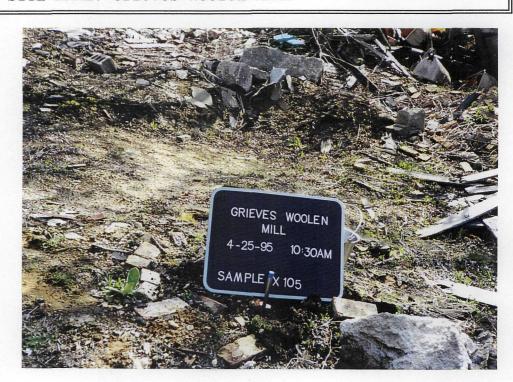
taken to east.

Sample X105 taken

on discolored soil

north of Picking

room.



DATE: 4-25-95

TIME: 10:30 am

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo #4

taken to west.

Sample X105 taken

on discolored soil

Note: Illinois

River and Water

St. in background.



DATE: 4-25-95

SITE ILO#: 001091990 COUNTY: Marshall

TIME: 10:45 am

SITE NAME: Grieves Woolen Mill

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo #5

taken to east.

Duplicate Samples

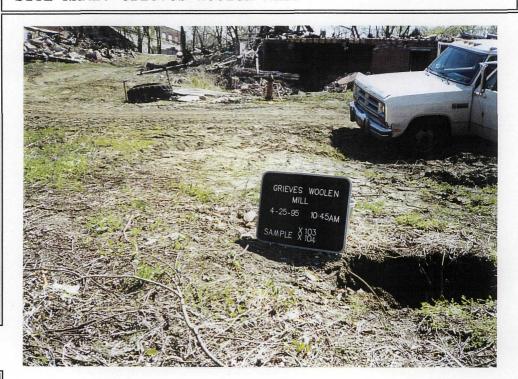
X103 & X104 taken

at hole where

drain pipe was

removed. Picking

room is in back.



DATE: 4-25-95

TIME: 10:45 am

PHOTOGRAPH TAKEN

BY: T. Prescott

COMMENTS: Photo #6

taken to west.

Duplicate samples

X103 & X104 taken

at top of bluff

to Illinois River

floodplain.



DATE: 4-25-95

SITE ILO#: 001091990 COUNTY: Marshall

TIME: 11:15 am

SITE NAME: Grieves Woolen Mill

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo #7

taken to north.

Sample X102 taken

at end of broken

drain line & at

lower edge of fuel

tanks.



DATE: 4-25-95

TIME: 11:15 am

PHOTOGRAPH TAKEN

BY: T. Prescott

COMMENTS: Photo #8

taken to south.

Sample X102 taken

at drain line.

Note: drain tile

at left in photo.



DATE: 4-25-95

SITE ILO#: 001091990 COUNTY: Marshall

TIME: 11:45 am

SITE NAME: Grieves Woolen Mill

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo #9

taken to east.

Sample X109 taken

under rotted floor

of old Finishing

room.



DATE: 4-25-95

TIME: 11:45 am

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo 10

taken to south.

Sample X109 taken

in Finishing room.

Floor was broken.



DATE: 4-25-95

SITE ILO#: 001091990 COUNTY: Marshall

TIME: 12:00 pm

SITE NAME: Grieves Woolen Mill

PHOTOGRAPH TAKEN BY: T. Prescott

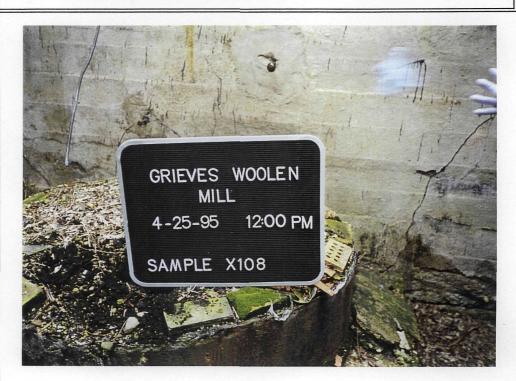
COMMENTS: Photo 11

taken to east.

Sample X108 taken

on top of Dye

Incinerator tank.



DATE: 4-25-95

TIME: 12:00 pm

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo 12

taken to north.

Sample X108 taken

on top of Dye

Incinerator tank.



DATE: 4-25-95

SITE ILO#: 001091990 COUNTY: Marshall

TIME: 1:45 pm

SITE NAME: Grieves Woolen Mill

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo 13

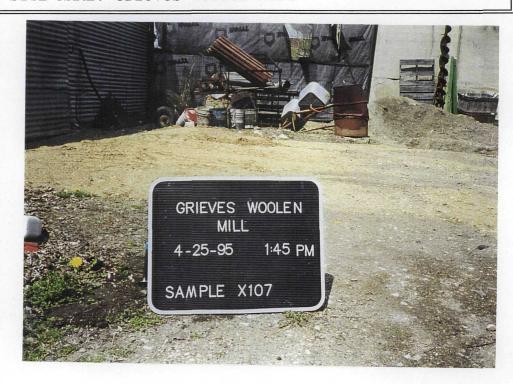
taken to north.

Sample X107 taken

near 1000gal tank

of H2SO4 may have

leaked.



DATE: 4-25-95

TIME: 1:45 pm

PHOTOGRAPH TAKEN

BY: T. Prescott

COMMENTS: Photo 14

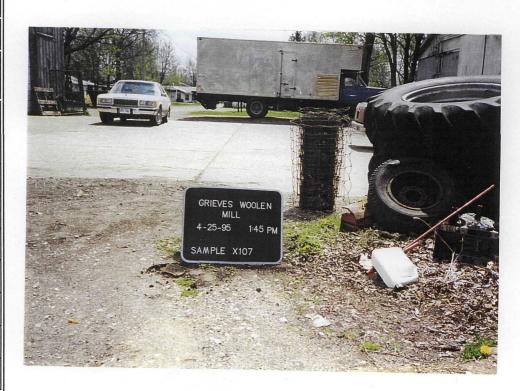
taken to south.

Sample X107 taken

near old H2SO4

tank may have

leaked.



DATE: 4-25-95

SITE ILO#: 001091990 COUNTY: Marshall

TIME: 2:15 pm

SITE NAME: Grieves Woolen Mill

PHOTOGRAPH TAKEN BY: T. Prescott

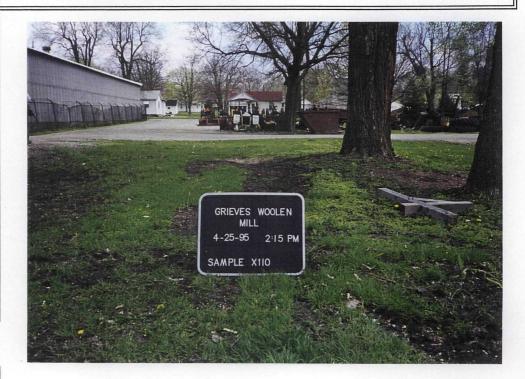
COMMENTS: Photo 15

taken to east.

Sample X110 taken

at residence just

south of site.



DATE: 4-25-95

TIME: 2:15 pm

PHOTOGRAPH TAKEN

BY: T. Prescott

COMMENTS: Photo 16

taken to west.

Sample X110 taken

at residence just

south of site.



DATE: 4-25-95

SITE ILO#: 001091990

COUNTY: Marshall

TIME: 2:30 pm

SITE NAME: Grieves Woolen Mill

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo 17

taken to north.

Sample X101 taken

at northwest edge

of Johnson Grove

Park.



DATE: 4-25-95

TIME: 2:30 pm

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo 18

taken to south.

Background Sample

X101 taken at

Johnson Grove Park



DATE: 4-25-95

SITE ILO#: 001091990 COUNTY: Marshall

TIME: 3:15 pm

SITE NAME: Grieves Woolen Mill

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo 19

taken to west.

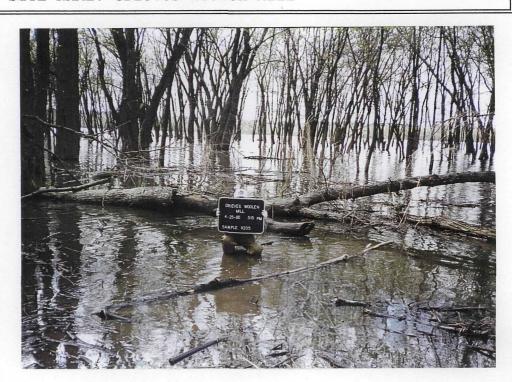
Sample X205 taken

in flooded area

west of sewage

treatment facility

south of site.



DATE: 4-25-95

TIME: 3:45 pm

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo 20

taken to north.

Duplicate samples

X203 & X204 taken

at bottom of bluff

in flooded area

west of Picking

room.



DATE: 4-25-95

SITE ILO#: 001091990 COUNTY: Marshall

TIME: 3:45 pm

SITE NAME: Grieves Woolen Mill

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo 21

taken to west.

Duplicate samples

X203 & X204 taken

in Illinois River

floodplain.



DATE: 4-26-95

TIME: 10:30 am

PHOTOGRAPH TAKEN

BY: T. Prescott

COMMENTS: Photo 22

taken to west.

Sample X202 taken

in flooded banks

of Illinois River.

Note: time is am

Note: tree line

indicates normal

river bank.



DATE: 4-26-95

SITE ILO#: 001091990 COUNTY: Marshall

TIME: 11:00 am

SITE NAME: Grieves Woolen Mill

PHOTOGRAPH TAKEN BY: T. Prescott

COMMENTS: Photo 23

taken to west.

Background Sample

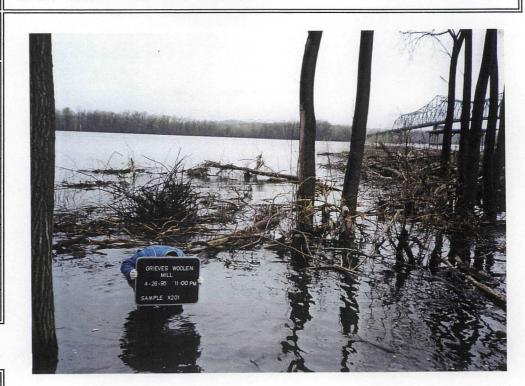
taken between site

and marina in

flooded plain.

Note: time should

be 11:00 <u>am</u>.



DATE:

TIME:

PHOTOGRAPH TAKEN BY:

COMMENTS:

TIME: 1:40 pm

PHOTOGRAPH TAKEN BY:

. Ted Prescott

PHOTO # 1

LOCATION: Lacon, IL
.Grieves Woolen Mill

.No ILD # Created

.Marshall County

PICTURE TAKEN TOWARD

the Northwest

.Photo of Bldg debris in. field, metal bldgs behind

open lot are on site. .



DATE: March 2, 1995

TIME: 1:40 pm

PHOTOGRAPH TAKEN BY:

. Ted Prescott

PHOTO NUMBER: 2

LOCATION: Lacon, IL

.Grieves Woolen Mill

.Marshall County
IL: None Assigned

PICTURE TAKEN TOWARD

the north.

.Photo of empty lot &

.metal buildings of site.



TIME: 2:00 pm

PHOTOGRAPH TAKEN BY:
.Ted Prescott

Photo # 3

LOCATION: Lacon, IL

.Grieves Woolen Mill

.Marshall County

.No ILD # assigned

PICTURE TAKEN TOWARD
the east-southeast
.Photo of the southwest
.corner of the site. This
.is portion of Panorama .
.of photos (3 - 8).



DATE: March 2, 1995

TIME: 2:00 pm

PHOTOGRAPH TAKEN BY:
.Ted Prescott

PHOTO NUMBER: 4

LOCATION: Lacon, IL
.Grieves Woolen Mill
.Marshall County
IL:not Assigned

PICTURE TAKEN TOWARD the east.

.Second photo in panorama
.shows metal buildings &.
.some debris piles.



FIME: 2:00 pm ____

PHOTOGRAPH TAKEN BY:

. Ted Prescott

PHOTO # 5

LOCATION: Lacon, IL
.Grieves Woolen Mill

.Marshall County

.No ILD# Assigned

PICTURE TAKEN TOWARD

the East northeast

.Third in panorama.

.Shows portion of collapsed .main building & debris .

.piles scattered over site



DATE: March 2, 1995

FIME: 2:00 pm

PHOTOGRAPH TAKEN BY:

.Ted Prescott

PHOTO NUMBER: 6

LOCATION: Lacon, IL

.Grieves Woolen Mill

.Marshall County

IL: None Assigned

PICTURE TAKEN TOWARD

the east.

. Fourth in Panorama

. Shows debris scattered.

.through out site. Bldg

.still standing & water

.tower are NE edge of

.property.



TIME: 2:00 pm

PHOTOGRAPH TAKEN BY:

.Ted Prescott

PHOTO # 7

LOCATION: Lacon, IL
Grieves Woolen Mill

.Marshall County

.ILD # not Assigned

PICTURE TAKEN TOWARD

the northeast

.Fifth in Panorama

. Shows lower portion of.
.site. Berm in lower left

.is debris pile & is start
.of bluff to Illinois River

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DATE: March 2, 1995

TIME: 2:00 pm

PHOTOGRAPH TAKEN BY:

.Ted Prescott

PHOTO NUMBER: 8

LOCATION: Lacon, IL

.Grieves Woolen Mill .Marshall County

IL: not Assigned

PICTURE TAKEN TOWARD

the north.

. Last in Panorama.

.Shows edge of berm to rt.

.Illinois River to Left.

.Area between berm & River .is bluff & flood plain. .

.This area has scattered

. through out.



TIME: 2:20 pm

PHOTOGRAPH TAKEN BY:
. Ted Prescott

PHOTO # 9

LOCATION: Lacon, IL

.Marshall County

.Grieves Woolen Mill

.ILD # not Assigned

PICTURE TAKEN TOWARD the east.

.Photo of bluff from flood
.plain. Shows barrels .

and tires.

DATE: March 2, 1995

TIME: 2:30 pm

PHOTOGRAPH TAKEN BY:

. Ted Prescott

PHOTO NUMBER: 10

LOCATION: Lacon, IL

.Grieves Woolen Mill

.Marshall County

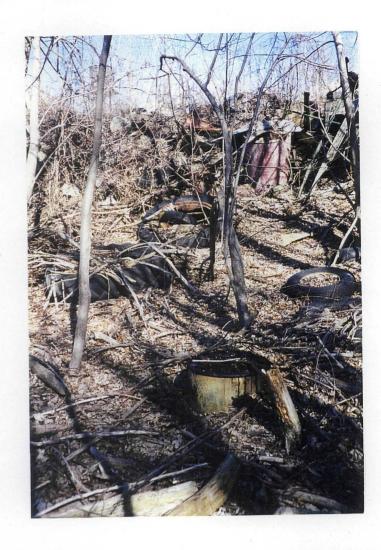
IL: not Assigned

PICTURE TAKEN TOWARD

the north.

.Photo shows potentially

.discolored soils. .





DATE: March 2, 1995			AND THE SECOND	
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TIME: 2:40 pm	36 B			《可》文"
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.Ted Prescott			Walter Company	
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.Grieves Woolen Mill				-
.Marshall CountyILD# not Assigned				
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